Deliberant Ap Duo Manual

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Book Descriptions:

Deliberant Ap Duo Manual

This product features a powerful, dualradio network processing board preloaded with a versatile and robust Linuxbased software package, all enclosed in a rugged cast aluminum enclosure. The unit comes complete with two high power Atherosbased miniPCI radio cards capable of operating in the 2.4 or 5 GHz bands. The AP Duo also features two external Nconnectors, allowing for flexibility in antenna configuration to match your application. The dualinterface design presents a variety of configuration possibilities including dual AP, AP repeater, and redundant PtP bridge with STP. The powerful core OS offered by the AP Duo delivers an abundance of flexibility, stability, and management features that are not present in other WISP products on the market today. This robust software platform coupled with the versatility in hardware configuration makes the AP Duo a universal, customized radio solution for almost any wireless application. There is also an option to specify the treshold of RSSI for each LED. Tested under extremely harsh weather environments and IP67 protection rating compliant; Integrated ESD surge protector available. With WNMS you can Collect information about your network devices name, MAC, serial number, IP, firmware in one place, have a quick search and data export possibilities. Monitor your network and device actual status, define monitoring profiles for desirable tracking parameters standard and custom based on SNMP value, get alerts on WNMS dashboard and via email, analyze alarms history. Execute the following tasks for your device or group of devices set configuration file on device, get configuration file from device, upgrade a firmware, get a troubleshoot file, reboot. You can run tasks immediately or schedule them according to your needs. Define profiles for collection of SNMP based statistical data from devices and create graphic reports. See your network and devices on Google map including availability status.http://dungcuvanphongonline.com/images/pic/ibot-user-manual.xml

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See your devices on topology map and create interconnections between devices according to your network structure. Have a big network and want to split it into smaller logical groups smaller networks and want to monitor, configure each part individually. You get other advantages if you use the WNMS WNMS work on any network infrastructure. Devices can be connected through wired or wireless; can be on LAN behind a NAT or on WAN. WNMS supports device provisioning. WNMS has presentable and userfriendly Adobe Flex GUI. The former Deliberant APC product line will be the “APC series” under LigoWave. No special commands are required. To use the reset tool, please upgrade your Deliberant APC series devices to software version 5.77. The new software version is available under downloads section on the support tab together with the reset tool. Click here to download the reset tool. Features Resets all Deliberant products Discovers the devices automatically in the local subnet Displays IP address, MAC address, firmware version Performs reset by one click requires powercycle of the device Has an option to add the device manually Works on Windows, Linux and MAC OS Below you can see a video on how to use the reset tool for Deliberant devices. The former Deliberant APC product line will be the “APC series” under LigoWave. The AP 2i features external LEDs for power, LAN and wireless link status, and may be powered by either direct DC power or poweroverethernet 9V—52V. This product ships with a removable RPSMA 3dBi OmniDirectional Antenna and integrated poweroverethernet power supply, providing a complete outofthebox solution for indoor access point provisioning. The software features of the AP 2i include a powerful Linuxbased core OS, with an easytouse, webbased GUI, providing an increased amount of flexibility, stability, features, and management functions that are not present in other WISP products

on the market today.http://hypointenergy.com/ibook-user-manual.xml

This product is also compatible with WNMS, a centralized configuration, firmware, and statistics server for carrier class management. Monitor your network and device actual status, define monitoring profiles for desirable tracking parameters standard and custom based on SNMP value, get alerts on WNMS dashboard and via email, analyze alarms history. Execute the following tasks for your device or group of devices set configuration file on device, get configuration file from device, upgrade a firmware, get a troubleshoot file, reboot. You can run tasks immediately or schedule them according to your needs. Define profiles for collection of SNMP based statistical data from devices and create graphic reports. See your network and devices on Google map including availability status. See your devices on topology map and create interconnections between devices according to your network structure. Have a big network and want to split it into smaller logical groups smaller networks and want to monitor, configure each part individually. You get other advantages if you use the WNMS WNMS work on any network infrastructure. Devices can be connected through wired or wireless; can be on LAN behind a NAT or on WAN. WNMS supports device provisioning. WNMS has presentable and userfriendly Adobe Flex GUI. The former Deliberant APC product line will be the “APC series” under LigoWave. The web interface was created with the purpose of providing all of the functionality desired in a CPE device while at the same time remaining fast and easy to setup. Operation Mode DLB CPE device can operate as transparent Bridge or Router. Bridge Mode The DLB CPE device can act as a wireless network bridge and establish wireless links with other APs. In this mode all LAN ports and Wireless interface will be a part of the Bridge. With a Bridge, all connected computers are in the same network subnet.

The only data that is allowed to cross the bridge is data that is being sent to a valid address on the other side of the bridge. Router Mode In router mode the CPE will receive internet through WAN port and will share it to the LAN ports that will be separated with a different IP range. The type of connection to the WAN interface can be made by Static IP, DHCP client or PPPoE. When device operates in Router mode, the traffic coming on wired interface and going out on wireless interface can be masqueraded by enabling NAT. NAT allows a set of CPE clients to invisibly access the Internet via the CPE. To other clients on the Internet, all this outgoing traffic will appear to be from the CPE device itself. 3 Quick Setup 1. Connect an Ethernet cable between your computer and the DLB CPE. 2. Make sure your computer is set to the same subnet as the DLB CPE, i.e Start your WEB browser. 4. All DLB CPE devices use following default settings WAN IP Subnet Mask username admin password admin01 The initial login screen looks as follow 5. Enter the default password, and then press the Login button to enter the DLB CPE web management page. 6. Navigate to the Wireless tab and click Scan button near the SSID entry field to choose the SSID of the wireless network device where the DLB CPE will be associated to. Specify the Security parameters of the AP and click Apply page changes 4 After changing device parameters, new settings will only be saved when you press Apply page changes button at the top of the configuration page. You also need to reboot the device for the device to start with new settings. 7. Reboot the DLB CPE device. 8. Login to the DLB CPE web management interface after the reboot and view Status page. Configuration Guide Each of the management windows listed below contains parameters that affect a specific aspect of the CPE device Status displays current CPE status.

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Configuration prepares device for use in a wireless network, controls how CPE associates to 6 an access point, authenticates to the wireless network, encrypts and decrypts data. The configuration menu also includes various tools such as Site Survey, Antenna Alignment, Syslog Viewer. System controls main system maintenance parameters, administrator login credentials, firmware upgrade, clock settings. Status The Status page displays a summary of status information of your DLB CPE. It shows important information for the station operating mode, network settings as well as information

of connected clients to the CPE. Leased DHCP addresses displays the list of clients connected to the DLB CPE and information on IP addresses leased by DHCP to each of the client. Configuration The Configuration page allows you to manage general parameters of the DLB CPE. Configuration page contains following sub menus Network to set management mode and main network configuration for DLB CPE. Wireless to setup general wireless settings. Firewall to create a Port Forwarding rules. Tools antenna alignment, site survey and syslog tools. Network The Configuration Network page allows you to control the network configuration of the device. First, radio operation mode should be defined to work as a bridge or router. The Firewall related functions and NAT are not available in this mode.Network settings will vary according selected Operation mode. If DHCP client mode is chosen and a DHCP server is not available, the device will try to get an IP. If has no success, it will use a fallback IP address. IP Address enter IP address for DLB CPE. Netmask enter a subnet mask for DLB CPE. Gateway IP enter a gateway IP address for DLB CPE. When assigning IP address make sure that the chosen IP address is unused and belongs to the same IP subnet as your wired LAN, otherwise you will lose the connection to the DLB CPE from your current PC.

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If you enable the DHCP client, the browser will lose the connection after reboot, because the IP address assigned by the DHCP server is not predictable. Router Mode This section allows to customize the parameters of CPE Router to suit the needs of network, including ability to use the built in DHCP server. When CPE is configured to operate as Router, the following sections should be specified WAN network settings, LAN network settings and LAN DHCP settings. 9 Enable NAT select to enable NAT Network Address Translation, that functions by transforming the private IP address of packets originating from hosts on your network so that they appear to be coming from a single public IP address and by restoring the destination public IP address to the appropriate private IP address for packets entering the private network, the multiple PCs on your network would then appear as a single client to the WAN interface. WAN Network Settings WAN network settings includes settings related to the WAN interface. The access type of the WAN interface can be configured as Static IP, DHCP client, PPPoE client. Access type choose Static IP to specify IP settings for CPE WAN interface 10 IP address specify static IP address for CPE WAN interface. Subnet mask specify a subnet mask for CPE WAN interface. Default gateway Specify a gateway for CPE WAN interface. Access type choose DHCP Client to enable DHCP client on the WAN side. This options does not need any of parameters. After setting the CPE access type as DHCP client and rebooting the device, the current IP settings received from the DHCP server will be displayed at the disabled entry fields of the WAN networks settings. Access type choose PPPoE to configure WAN interface to connect to an ISP via a PPPoE 11 PPPoE user name specify the user name for PPPoE. PPPoE password specify the password for PPPoE.

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LCP echo failure specify the number of LCP echo requests that will be sent without receiving a valid LCP echo reply at which will considered that the peer is dead. Default 5. LCP echo interval specify the time interval in seconds at which an LCP echo request frame will be sent to the peer. Default 10 seconds. MTU specify the MTU Maximum Transmission Unit. The default value is 1500 bytes. MRU specify the MRU Maximum Receive Unit. The default value is 1500 bytes. Use alternate DNS select to enable an option to use the desired DNS servers. When this option enabled, the DNS server 1 and DNS server 2 entry fields become active and ready for entering the needed DNS servers. Holdoff specify how many seconds to wait before re initiating the link after it terminates. Default After setting the PPPoE configuration and rebooting the device, the current IP settings received from the PPPoE server will be displayed at the disabled entry fields of the WAN networks settings. 12 LAN Network Settings LAN network settings includes settings related to the LAN interface IP address specify the IP address of the CPE LAN interface. Subnet mask specify the subnet mask of the CPE

LAN interface. LAN DHCP Settings LAN DHCP settings includes DHCP settings related to the LAN interface. Operating mode choose disabled to disable DHCP on LAN interface. Operating mode choose relay to enable DHCP relay.the DHCP relay forwards DHCP messages between subnets with different sublayer broadcast domains. Operating mode choose server to enable DHCP server on LAN interface. 13 IP address from the starting IP address of the DHCP address pool. IP address to specify the ending IP address of DHCP address pool. Subnet mask specify the subnet mask. Default gateway specify DHCP gateway IP address. Lease time specify the expiration time in seconds for the IP address assigned by the DHCP server. DNS server specify the DNS server IP address.

Wireless The Wireless page is devided in three sections Basic Wireless Settings, Country Code and Advanced Wireless Settings. Before changing radio settings manually verify that your settings will comply with local government regulations. At all times, it is the responsibility of the end user to ensure that the installation complies with local radio regulations. According to the country chosen the regulatory domain settings change. Use Basic Wireless Settings to setup radio interface of the CPE Enable radio select to enable radio. IEEE mode specify the wireless network mode. The list of IEEE modes will conform to the wireless network modes supported by the CPE. The IEEE mode list varies depending on the selected country code in accordance with the regulatory domain. Fast Frames packet aggregation and timing modifications. The fast frames is only available on A and G IEEE modes. Packet Bursting more data frames per given time period. The packet bursting is only available on A and G IEEE modes. 15 Dynamic Turbo choose to maximize throughput using multiple channels. Dynamic Turbo is only available on A and G IEEE modes. SSID specify the SSID of the wireless network device where the DLB CPE will be associated to. Scan click this button to scan for the AP list. The CPE radio will scan for all AP and will generate a list, from which the SSID of the proper AP can be selected. Current channel displays the channel at which the device is operating currently. Channel select the channel, or function auto from the drop down list. Multiple frequency channels are available to avoid interference between nearby access points. If you wish to operate more than one access point in overlapping coverage areas, we recommend a distance of at least four channels between the chosen channels. For example, for three Access Points in close proximity choose channels 1, 6 and 11.

The auto channel function is used to find the best channel for wireless device communication either an unused channel or if all are in use that with the lowest measured signal strength. The available channel s list varies depending on the selected country code and IEEE mode of the DLB AP device. The default channel bandwidth for radio is 20MHz in 11a mode and 22MHz in 11g mode for the turbo mode these are double. Although this will drop down the data transfer rates, the power density will be increased and it may help to achieve greater operation distances see figure below. Quality of service enable to support quality of service for traffic prioritizing. Station WDS mode enable ability to connect CPE to the AP in WDS mode. Automatic data rate mode specify the automatic data rate mode status. If this option is specified the CPE will use all data rates lower or equal to the value of Data rate described below. Data rate, Mbps choose the data rates in Mbps at which DLB CPE should transmit packets to or receive packets from AP. 16 Security mode choose the wireless security at which the DLB CPE associates to a wireless device and encrypts and decrypts data Open system disable security. The passphrase will be converted to pre shared key format, selected above. Identity specify identity name. Used only when TKIP ir CCMP encryption is chosen. Use the Advanced wireless settings section to setup advanced wireless of the CPE device. The Advanced wireless settings are only for more technically advanced users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know what effect the changes will have on CPE device. Transmit power specify the radio transmit power at which the DLB CPE transmits data in dbm using slider or enter the value manually. When entering transmit power value manually, 17 the slider position will change according to the entered value.

The transmit power level that is actually used is limited to the maximum value allowed by your countrys regulatory agency. This is the amount of time the DLB CPE will wait to hear a response from the AP. Too low of a value of ACK timeout will give very low throughput. A high value may slow down the link. A low value is far worse then a value slightly too high. ACK Timeout value should be tuned to the optimal value for the maximum system throughput. This is the maximum size for a packet before data is fragmented into multiple packets. This value should remain at its default setting of Setting the Fragmentation threshold too low may result in poor network performance. Only minor modifications of this value are recommended. The RTS threshold determines the packet size of a transmission and, through the use of an access point, helps control traffic flow. The default value is 2347 2347 means that RTS is disabled. Antenna specify which antenna connector to use Internal or External Internal The built in integrated panel antenna Default External The external n connector to be used with external antennas dish, grid, omni, etc Firewall The Port Forwarding may be required when NAT is enabled. NAT translates all internal addresses to one official IP address. With port forwarding configured it is possible to access internal services and workstations from the WAN interface. Use the Configuration Firewall menu to specify such a port forwarding rule. Tools Use the Tools menu to use the following DLB CPE device applications Antenna Alignment to align DLB CPE device antenna. Site Survey to view the list of wireless networks in local graphical area. Skin Management to manage DLB CPE device skins. Antenna Alignment The Antenna Alignment tool measures signal quality between the CPE and AP. For best results during the antenna alignment test, turn off all wireless networking devices within range of the device except the devices with which you are trying to align the antenna.

Watch the constantly updated display in the Alignment Test window as you adjust the antenna. 19 The Antenna Alignment test results appear when you click the Start button, and finishes when you click Stop button. Site Survey The Site Survey tool shows overview information for wireless networks in a local geographic area. An administrator can use this feature to identify a clear channel to set device to that will not receive interference from adjacent APs. Note that Site Survey function can take several minutes to perform. To perform the Site Survey test currently, click the Scan radio 20 Scan radio click to perform the Site Survey test. Skin Management The DLB device has an integrated skin mechanism. The skins enables change of the look and extension of functionality of the device. A few SKINS may be uploaded and easily interchanged on one device. The are two types of skins build in and custom. The build in skins comes with a DLB device firmware and are undeletable so even after the device reset to factory defaults the build in skins will remain. The custom skins are fully manageable they can be uploaded and deleted from the system by the administrator. Use the Configuration Tools page for skin upload, download or activation. Skin name displays the name of the particular skin. 21 Active marks which skin is activated on the system. Type specifies the type of particular skin build in skins that are built in device firmware and cannot be removed. The built in skins will remain even after device reset to factory defaults.Activate load and activate selected skin on the system. After the selected skin will be activated, the new web interface appearance will be displayed. Take a note that after activation of a new skin, the configuration file and parameter values will be reverted to the default values of the activated skin including the IP address of the device and administrators credentials. Delete remove the selected skins from the system.

The build in skins are not removable, only custom skins can be deleted. Download download the selected skin to your local PC. Use the Upload New Skin section to upload custom skins on the Deliberant device system Browse click the button to select the new skin archive from a folder on the PC. Upload upload the new skin on the system. Successfully uploaded skin archive will appear on the Skin table under Device Skins section. System 22 System menu allows you to manage main system parameters Administrative Account to change administrator s password. Device License to upload license file on the CPE device. Firmware Upgrade to upgrade CPE firmware. Reboot to reboot CPE.

Reset to Factory Defaults to reset CPE to factory defaults. Troubleshooting to download troubleshooting file. Syslog to indicate level of the system messages. Syslog Viewer to view system messages. Administrative Account We recommend to change the default administrator password as soon as possible. The Administrative Account section is for changing the existing CPE administrators password. Username displays the username of the current connected administrator. This parameter is not changeable. Old password enter the old administrator password. New password enter the new administrator password for user authentication. Verify password re enter the new password to verify its accuracy. The only way to gain access to the web management if you forget the administrator password is to reset the DLB CPE to factory default settings. Default administrator logon settings are User Name admin Password admin01 23 Device License The license status is displayed on the device Status page License status displays the license validity status valid this license status means that devise has full functionality of the purchased DLB CPE firmware release. With a valid license, you can get all service releases of the purchased FW version for free.The license will be still valid after resetting the device to defaults.

If the device has an invalid license uploaded, only very limited set of the device functionality is enabled It runs only with a default configuration. Only a single BSSID is allowed; DHCP client runs on WAN interface, DHCP servers run on LAN and Wireless interfaces. It is impossible to change the configuration. All features are locked down until a valid license is presented. Any changes made in configuration will be stored in the flash memory of the device. Thus only a default setting will be used after the reboot. To upload a new valid license file on the device navigate to the Device License section on the System page and use the Upload button License status displays the validity status of current license. 24 Browse click to specify the license file you want to upload on the device. Upload click to upload the chosen license file on the device. Be sure for certain you are uploading a valid license file. After the new license file is uploaded, the device must be rebooted for changes to take effect. For instructions how to reboot the device, refer to the section Reboot. In case the fault license file has been uploaded, the device becomes inactive after reboot and the default configuration will be uploaded with the dynamic IP address given by the local DHCP server. Firmware Upgrade The CPE device system firmware upgrade is compatible with all configuration settings. When the device is upgraded with a newer version or the same version builds, all the system s configuration will be preserved after the upgrade. To update your device firmware use the Firmware upgrade section, select the firmware file and click the Upload button Current Firmware Version displays version of the current firmware. Browse click the button to select the new image from a folder on the PC. Upload upload the new firmware. The new firmware image is uploaded to the device temporary memory. It is necessary to save the firmware into the device permanent memory.

Click the Upgrade button 25 Upgrade upgrade device with the uploaded image and reboot the system. Do not switch off and do not disconnect the device from the power supply during the firmware update process as the device could be damaged. Reboot This section is for device Reboot. Reboot reboot the CPE device with the last saved configuration. After clicking the Reboot button, the confirmation message appears Reboot click to finish the device reboot process. Cancel do not reboot the device. Reset to Factory Defaults Use this section to reset device parameters into factory defaults Reset click to reset the device to factory default values. 26 After clicking the Reset button, the confirmation message appears Reset click to reset the CPE device to factory default values. Cancel click to cancel reset process. Resetting the device is an irreversible process. Current configuration and the administrator password will be set back to the factory default. Nevertheless the device license will be still valid after resetting the device to defaults. Troubleshooting The CPE device has an ability to generate a troubleshooting file that contains a valuable information about device configuration, routes, log files, command outputs and etc. Using the Troubleshooting tool the device itself gathers information instead of you. This is helpful for submitting problems to Deliberant

support team. Download click to download the troubleshooting file to your local PC. The NTP Network Time Protocol client synchronizes the clock of the DLB CPE device with a selected time server. Timezone select the timezone. Time zone should be specified as a difference between local time and GMT time. Note that CPE uses timezone conversions according the ISO committees decision to create time expressions using offsets from UTC rather than to UTC i.e., having opposite sign. For example, if GMT time is 1011, but correct local time is 1211, then timezone has to be set to 2.00 hour.

Save last known time select to recall the timestamp that was saved on last reboot. When the NTP is enable, this option will set system clock to last reboot time if no NTP servers are available. Add click to add NTP server Delete click to remove selected NTP servers from the device system. Timezone select the timezone. Time zone should be specified as a difference between local time and GMT time. Note that CPE uses timezone conversions according the ISO committees decision to create time expressions using offsets from UTC rather than to UTC i.e., having opposite sign. For example, if GMT time is 1011, but correct local time is 1211, then timezone has to be set to 2.00 hour. Save last known time select to recall the timestamp that was saved on last reboot. 28 Date specify the new date value in format YYYY.MM.DD. Time specify the time in format hhmm. If device hardware has no internal clock, the configured manual time will be reset to the specified date and time after each device reboot. Syslog By default the trace system utility is switched on with the informational level of reporting. Use Syslog section on System menu to change the messages level you need to log. Message level select the message level you need to trace. The level determines the importance of the message and the volume of messages generated by the CPE. Syslog Viewer The Syslog viewer utility provides debug information for system services and protocols should a malfunction occur. The syslog capability can help operators to locate mis configurations and system errors. Use Show Syslog button to view current trace messages should it be necessary to troubleshoot service Show syslog click to view syslog messages. The latest messages are displayed at the end of the message list, use Reversed option to rearrange order of syslog messages. Reversed select to reverse the arrangement order of syslog messages.