

StarPlus 1130

MIMO CPE, IP67 Ruggedized Enclosure



OVERVIEW

EION's StarPlus 1130 CPE is a high-power, high-performance ruggedized outdoor subscriber station for deployments where extended range is a requirement. StarPlus 1130 uses EION's proprietary TrustLink technology, which is built on more than a decade of OFDM experience, to reduce interference and increase throughput.

With its high spectral efficiency, large capacity, user friendly GUI and rich feature-set, StarPlus is the ideal unlicensed wireless solution for rural and metropolitan broadband requirements.

TRUSTLINK ADVANTAGE

TrustLink™ technology ensures equitable distribution of traffic to all subscriber stations and uses intelligence to determine the number of polling cycles every user gets depending on the level of its activity. This way the network resources are not wasted during the polling of inactive users due to no user data transmission. TrustLink can be employed in both point-to-point and point-to-multipoint networks and dramatically reduces the effects of unwanted interference on the wireless link.

PRODUCT FEATURES

- EION TrustLink™ Technology
- 2x2 MIM0
- 5.x GHz extended frequency range from 4.920 to 6.100 GHz
- Rugged construction for all weather conditions
- High spectral efficiency and robust RF network performance
- · Real Time RSSI alignment indicator
- Backward compatible with EION LibraPlus 5860 APs
- Up to 300 Mbps data rate over the air, maximum ethernet throughput is 100 Mbps
- OFDM technology provides NLOS coverage in urban environments
- User friendly web-based GUI
- SNMP v2c and enterprise MIB for advanced network management
- 40 MHz Turbo channel size
- 20 MHz Normal channel size
- 5 & 10 MHz Narrow band channel sizes
- Built-in lightning, power surge PoE protection, high EMI immunity

Product Name	Product Description	Product Code
StarPlus 1130-58	5 GHz StarPlus CPE, OFDM MIMO 300 Mbps, 2x N-Type Connector	1130-58-10-00





DATASHEET

STARPLUS 1130

Radio	StarPlus 1130-58	StarPlus 1130-58								
Topology	Point-to Multipoint CP	 E								
Diversity	2×2 MIMO	-								
Frequency*	4.920 to 6.100 GHz									
Channel Size*		0 MHz; Normal: 20 MHz; Tu	ırho: 40 MHz							
Channel Spacing			IIDO. 40 IVII IZ							
		5 MHz × channel number for CF								
Modulation		MCS 0 to 15 (6.5 to 300 Mbps); BPSK, QPSK, 16-QAM and 64-QAM for LibraPlus mode (6Mbps - 54Mbps)								
Antenna	2 × N-type female									
Output Power [†] Receiver Sensitivity (BER = 10 ⁻⁶) +/- 2dB	+29 dBm aggregate; 2 × 26 dBm per stream (configurable from 9 dBm up to license key limit in 1 dB steps) Modulation 5 MHz 10 MHz 20 MHz 40 MHz									
	MCS0/8	Modulation BPSK	-101 dBm	-98 dBm	20 MHz -95 dBm	40 MHz -92 dBm				
	MCS1/9	QPSK1/2	-99 dBm	-96 dBm	-93 dBm	-90 dBm				
	MCS2/10	QPSK3/4	-96 dBm	-93 dBm	-90 dBm	-87 dBm				
	MCS3/11 MCS4/12	16-QAM1/2 16-QAM2/3	-95 dBm -91 dBm	-92 dBm -88 dBm	-89 dBm -85 dBm	-84 dBm -81 dBm				
	MCS5/13	64-QAM2/3	-87 dBm	-84 dBm	-81 dBm	-77 dBm				
	MCS6/14	64-QAM3/4	-85 dBm	-82 dBm	-79 dBm	-76 dBm				
	MCS7/15	64-QAM5/6	-81 dBm	-78 dBm	-75 dBm	-74 dBm				
Duplexing Format	TDD, Half-Duplex									
Radio Feature Support	Dynamic Frequency Selection (DFS)									
Spectral Efficiency	6.5 bits per Hertz									
Network Support										
Medium Access Control	Proprietary MAC, Trust	Link™								
Network Connection	10/100 Base T Auto-negotiation or configurable for full/half dulplex									
Operational Mode	Transparent Bridging, Multicast									
Traffic Management	Advanced QoS with multiple service flows and classifier priorities - VLAN ID (802.1q), VLAN Priority (802.1p) and DSCP/ToS									
Fast Frame Aggregation	Yes									
Sector Locking	Yes, configurable black or white Access Control Lists									
VLAN		· · · · ·								
Intra-sector Bridging	Data Tagging/Untagging, 802.1q transparency, VLAN Management, QinQ									
	Yes 1:N NAT configurable through CPE GUI									
NAT										
DHCP		DHCP server for LAN devices when in NAT mode								
IPv6	IPv6 pass through enal	oled when CPE works in brid	lge mode, Tunneling in NAI	mode						
Wireless Networking										
Output Power Management	Yes									
Data Rate Selection	Yes									
Security										
Management Access	Username and Password									
Encryption	WEP (64, 128, 154), W	PA1 (TKIP), WPA2 (CCMP - A	AES 128, CBC-MAC for hea	ders)						
Management										
Remote Management	Web-GUI, SNMP v2c (Set, Get and Traps with prop	orietary MIB)							
Management IP	DHCP client or static IP									
Installation Management	RSSI Indicator, Wireless Link Monitor, Audible Antenna Alignment Beeper, Built-in Spectrum Analyzer									
Backup Configuration	T T	Save Radio Configuration to local PC								
Software Upgrade	Over the Air, local, Web-based upgrade, Dual bank to allow rollback									
Ease of Use	Single management view of all deployed products in EION Constellation centralized management system									
Physical, Electrical & Environ		ew or air deployed products	III LIOIV GOIISTEIIATIOII CEIT	ranzea management system	1					
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Power Consumption	<10 W									
Input Voltage	100-240V, 50/60 Hz AC with 48V PoE 802.3af; DC Power option available									
Temperature Range		Operating: -30° C to +70° C								
Relative Humidity	0 to 100%, condensing									
Mounting Bracket	Yes, 2-Axis pole/wall									
Enclosure	Single Unit, Die Cast NEMA 4x; IP67									
Weight	2.0 kg									
Dimensions	230 mm × 230 mm × 65 mm									
Certifications	FCC, IC, WPC, RoHS ar	nd WEEE								

[†] Maximum power output is set by country specific licensing key. The operator of this product must ensure compliance when selecting external antennas with the limits specified by local regulation prior to deployment * Frequency bands that are available to the operator are determined by country specific licensing key.

