

WINLINK 1000 ODU-HE/F49/FCC/EXT

Product Description



The WINLINK 1000 ODU-HE/F49/FCC/EXT provides high-quality TDM + Ethernet connectivity, enabling service providers to offer the best service to their customers at a competitive price.

The WINLINK 1000 ODU-HE/F49/FCC/EXT product features:

- Supports full range of services, up to 4 T1/E1 + Ethernet (Maximum 18 Mbps net throughput)
- Range of up to 80 Km
- 5, 10, 20MHz channel bandwidth
- Max Tx power 25dBm @ 5 and 10MHz, 21dBm @ 20MHz
- Hub Site Synchronization
- Robust interference-fighting mechanisms designed for license-exempt bands
- Automatic Adaptive Rate for optimal performance in all environments



WINLINK 1000 ODU-HE/F49/FCC/EXT

Product Specifications

Architecture	
Outdoor Unit	ODU, requires antenna
Indoor Unit	IDU or PoE device
IDU to ODU Interface	Outdoor CAT5e cable; Maximum length: 100m total
Radio	
Frequency Band	4.940 – 4.990 GHz
Data Rate	Up to 54 Mbps air interface, 18 Mbps Ethernet throughput
Channel Bandwidth	Configurable: 5, 10, 20 MHz
Duplex Technique	TDD
Modulation	OFDM – BPSK/QPSK/16QAM/64QAM
Max Tx Power	25dBm @ 5 and 10MHz, 21dBm @ 20MHz
Received Dynamic Range	>60dB
Error Correction	FEC k=1/2, 2/3, 3/4
Management	
Protocol	SNMP based
Network Management	SNMPc based
Upgrade Capabilities	Local and remote 'over the air' software upgrade
Mechanics	
Dimensions	24.5cm(H) x 13.5cm(W) x 4.0cm(D)
Weight	1.0kg/2.2lbs
Power and Mounting	
Power Feeding	From the IDU or PoE device via the CAT5e cable
Power Consumption	< 14W (ODU + IDU/PoE device)
Mounting	Pole and Wall
Environmental	
Enclosure	All weather case
Operating Temperatures	-35°C to +60°C
Humidity	Up to 100% non-condensing
Selected Antennas (Other external antennas are available)	
External Antenna (not included)	
Gain	26 dBi (27dBi – 1dB feeder loss)
Beam Width	8°
Polarization	Linear
Regulation	
FCC	47CFR Part 90 Subpart Y
IC	RSS 111 Issue 2
Safety	
UL	60950 (Third Edition)
EN	60950-1 (2001), IEC 60950-1 (2001)
CAN/CSA	C22.2 No. 60950
EMC	
FCC	CFR47 Class B, Part15, Subpart B
CAN/CSA-CEI/IEC	CISPR 22-02
EN	300 386 V1.3.2; 301 489-4 V1.3.1; 301 489-1 V1.4.1; 55022:1998; 61000-3-2:2000; 61000-3-3:1995; 55024:1998
AS/NZS	CISPR 22, CISPR 22:2002, CISPR 22:1997
Environmental	
ETSI	IEC 60721-3-4 Class 4M5
	IP67

WINLINK 1000 ODU-HE/F49/FCC/INT

Product Description



The WINLINK 1000 WINLINK 1000 ODU-HE/F49/FCC/INT provides high-quality TDM + Ethernet connectivity, enabling service providers to offer the best service to their customers at a competitive price.

The WINLINK 1000 WINLINK 1000 ODU-HE/F49/FCC/INT product features:

- Supports full range of services, up to 4 T1/E1 + Ethernet (Maximum 18 Mbps net throughput)
- Range of up to 80 Km
- 5, 10, 20MHz channel bandwidth
- Max Tx power 25dBm @ 5 and 10MHz, 21dBm @ 20MHz
- Hub Site Synchronization
- Robust interference-fighting mechanisms designed for license-exempt bands
- Automatic Adaptive Rate for optimal performance in all environments



WINLINK 1000 ODU-HE/F49/FCC/INT

Product Specifications

Architecture	
Outdoor Unit	Outdoor Unit (ODU) with integrated antenna
Indoor Unit	IDU or PoE device
IDU to ODU Interface	Outdoor CAT5e cable; Maximum length: 100m total
Radio	
Frequency Band	4.940 – 4.990 GHz
Data Rate	Up to 54 Mbps air interface, 18 Mbps Ethernet throughput
Channel Bandwidth	Configurable: 5, 10, 20 MHz
Duplex Technique	TDD
Modulation	OFDM – BPSK/QPSK/16QAM/64QAM
Max Tx Power	25dBm @ 5 and 10MHz, 21dBm @ 20MHz
Received Dynamic Range	>60dB
Error Correction	FEC k=1/2, 2/3, 3/4
Management	
Protocol	SNMP based
Network Management	SNMPc based
Upgrade Capabilities	Local and remote 'over the air' software upgrade
Mechanics	
Dimensions	30.5cm(H) x 30.5cm(W) x 5.8cm(D)
Weight	1.5kg/3.3lbs
Power and Mounting	
Power Feeding	From the IDU or PoE device via the CAT5e cable
Power Consumption	< 14W (ODU + IDU/PoE device)
Mounting	Pole and Wall
Environmental	
Enclosure	All weather case
Operating Temperatures	-35°C to +60°C
Humidity	Up to 100% non-condensing
Antenna	
Gain	18.5 dBi
Beam Width	9°
Polarization	Linear
Regulation	
FCC	47CFR Part 90 Subpart Y
IC	RSS 111 Issue 2
Safety	
UL	60950 (Third Edition)
EN	60950-1 (2001), IEC 60950-1 (2001)
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