EO Modem
EO-PMC-2500-*X*

Features and Benefits

The Intercept™ EO solution delivers Multigigabit data rates over existing legacy coaxial cabling for rapid and economical deployment in MDU, enterprise or campus environments. Capable of data rates of up to 2.5 Gbps downstream and up to 2 Gbps in the upstream, EO is highly competitive with FTTH services, at a fraction of the cost.

The EO eMTA provides full featured functionality and management capabilities for intuitive subscriber management and superior QoE, time to market and rapid activation and implementation of revenue generating services.

Designed specifically for MDU applications, the EO system can be implemented in a P2P or P2MP delivery design, and can be routed to the EO CMD100, CMD 250 eMTA or via Wireless router for reliable high speed data coverage throughout the premise environment.

The Intercept™ EO-PMC-2500-*X* is a low cost, easily and rapidly provisioned Customer Premise embedded Media Terminal Adaptor targeted to the Multi Dwelling Unit market segment for high speed symmetrical data services. The EO-PMC-2500-*X* eMTA enables high speed data services over coaxial cable of up 2.5 Gbps downstream and 2 Gbps upstream and can be managed from the EO Network controller.

The EO solution and EO eMTA portfolio provides a highly intuitive cloud management platform for easy onboarding of new subscribers and efficient subscriber and network management.

The EO solution can utilize RF spectrum between 400 MHz and 900 MHz for legacy networks which have cleared spectrum used for video services, but can also operate in a mode between 1125 MHz to 1675 MHz, leaving all legacy services in place below 1 Ghz. The EO uses MoCA access OFDM technology and can deliver a highly efficient modulation rates up to 1024 k QAM.

SPECIFICATIONS

EO-PMC-2500-X

System
MoCA Version MoCA 2.5 / MoCA Access 2.5
Protocol IEEE 802.3x
MoCA Access Interfaces
RF Connector: F-type
Impedance: 75 Ω
CATV Output (F-Con) 5 - 1002 MHz
MoCA Ext Band D Operation 1125 - 1675 MHz
Max Transmit Power +3 dBm
Internal Diplexer - Yes
MoCA/MoCA Access 2.5 Supported Maximum Application Data Rate
Max Physical Data Rate Up to 3 Gbps
Coax Application Data Rate - Up to 2.5 Gbps Bi-directional Combined for 2-31 Modems Connected to an MDU Port - Up to 3 Gbps Bi-directional Combined for 1 Modem Connected to a MDU Port
LAN Interface
1 x RJ45 for 10/100/1000/2500 Ethernet
Switches
Reset
LED
Power: Power Indicator LED
Ethernet: Ethernet Interface Indicator LED
COAX: Coax Cable Link State Indicator LED

Power
Power Consumption ≤ 3,5 Watts (excluding SFP)
Power Supply 100-240 VAC/50-60 Hz 12 V/0.5 A
Remote Powering – No
1.3 mm Diameter Connector Plug
Environment
Operating Temperature 0 ºC ~ 40 ºC (32 ºF to 104 ºF)
Storage Temperature -20 ºC to 85 ºC (-4 ºF to 185 ºF)
Operating Humidity 10 %~85 %, Non-condensing
Storage Humidity - 5 % to 90 % Non-condensing
Physical Size
11.0(H)x8.0(D)x2.50(W) cm
4.33(H)x3.15(D)x0.98(W) inch
Weight
<0.15 Kg
Compliance
CE - EN 55032: Electromagnetic Compatibility of Multimedia Equipment - Emission Requirements - EN 55035: Electromagnetic Compatibility of Multimedia Equipment - Immunity Requirements
FCC Class B - This Device Complies with Part 15 of the FCC Rules License-exempt RSS Standard(s).
RoHS