ALCOMA AL5F

option MP400

Main features

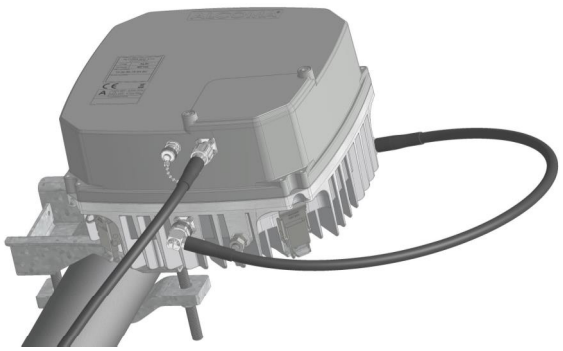
- Frequency band 5,725 – 5,850 GHz
- Output power 10 dBm, ATPC
- Transmission capacity up to 165 Mbit/s full duplex (330 aggregated)
- Modulation scheme 16, 32, 64, 128, 256, 512 and 1024 QAM
- Channel bandwidth 7, 10, 14, 18, 20MHz
- User interface 1xEthernet 1000Base-T, option second Ethernet 1000BaseT+1xoptical Ethernet interface SM, MM or WDM.
- Hitless adaptive coding and modulation (ACM)

Description

ALCOMA AL5F MP400 is compact, easy to deploy and cost effective radio relay link suitable for both last miles and backbone links. It can be used for building LANs, MANs and WANs, for delivery of internet connection IPTV or VoIP services. AL..F option MP400 covers the 5,725-5,850 GHz frequency bands with the speed from 10 to 165 Mbps in 20 MHz channel. Common hardware platform supports several combinations of Ethernet network interfaces – 1-2 metallic Ethernet 100Base-T and 1 fiber optical Ethernet interface (SM, MM or WDM industrial module)

AL..F family incorporates powerful Trellis Coded Modulation with Concatenated Reed-Solomon error correction to ensure low residual BER. Those offer high coding gain and require lower signal to noise ratio. ALCOMA AL. has built-in BERT for remote link diagnostics. Network management system (both in band or out of band possibility) can be connected via Ethernet channel or serial RS-232 channel.

ASD software, SNMP v. 1 and WEB interface may be used for setup, maintenance and diagnostics of AL..F radio relay link. QinQ and Quality of Service (QoS) configuration assigning priority queue based on the port packet arrived to, the priority tag field, the TOS field and the DS field are provided for Ethernet Channel. 1+0 and 1+1 protected configuration maybe used with ALCOMA AL..F radio relay link.



Parameters of AL5F option MP400

General parameters

Band	5 725 – 5 850 MHz
Modulation	QPSK – 1024 QAM
Channelwidth	3,5 – 20 MHz
Transmission capacity	up to 165 Mbps full duplex, 330 Mbps aggregated
Forward Error Correction	Reed-Salomon

Radio Parameters

Tx power	-15 - +10 dBm manually, ATPC
Frequency stability	<10ppm

User Interface

Ethernet 1000Base-T	1 or 2 ports
Fiber optical Ethernet	optionally 1 port, SM, MM or WDM

Control and diagnostic system

ASD, WEB, SNMP v.1

ODU Connection

S-FTP cat 6 or cat 7 cable

Power Supply

48V DC, up to 35W

Temperature range

-35 - +55 deg. C

Antenna Interface

N-type connector

Antenna System

Any third party antenna can be used

RSSI interface

BNC