

In:xtnd Control 4 Channel is a broadband over coax access node, capable of 2.5 Gbps per RF-port, a total of 10 Gbps.

In:xtnd Control 4 Channel communicates with In:xtnd Access. Products using MoCA Access™ 2.5 standard.

The In:xtnd Control 4 Channel supports up to 124 In:xtnd Access modems.



KEY FEATURES

- Designed for service providers delivering internet broadband and triple play services
- Accumulated 10 Gbps over four RF-ports
- Each RF-port delivers 2.5 Gbps
- Delivers IPTV, VoIP and high-speed Internet
- Operational bands between 400–1675 MHz
- Co-exist with terrestrial and cable-TV services
- Uses existing in-building coaxial cables
- Delivers broadband through existing antenna outlet
- Fast and cost-efficient in-building deployment
- MoCA Access™ 2.5 Profile D compliant

SPECIFICATIONS

Physical Ports

- **4x MoCA Access ports: MoCA Access 2.5 Profile D compliant**
- 25 dBm+/-3dBm Max Output Power; automatically adjusted per modem
- PHY Rate: up to 700 Mbps per RF-channel
- MAC Rate; up to 500Mbps per RF-channel
- RF-channel bandwidth: 100 MHz
- Bonded operation with 3, 4 or 5 RF-channels supporting
- Spectrum spreading: OFDM
- Modulation: QAM 1024 /512 /256 /128/64/32/16/8/BPSK/QPSK
- Multiplexing methods: TDMA/TDD
- MAC Rate 1.5/2.0/2.5 Gbps
- Attenuation (up to 700Mbps PHY Rate): 100% link quality at 45, 55 or 65dB link attenuation
- Low power design
- F-female Connector - 3/8-UNEF32, 75Ω
- Max 31 Modems per port

- **2x SFP + ports:** Multi Source Agreement (MSA) Compliant
- SERDES – 10 Gbps data rate
- SFF8472 – Diagnostics interface

- **1x Management Ethernet port:** 10/100Mbps, IEEE 802.3 Compliant
- Configuration and Statistics port
- RJ-45 Connector, support CAT5 UTP

Power

- 48 VDC nominal, DC plug 2.5 mm
- Typically 32W power consumption
- Automatic power on after power grid failure

Environmental

- Operating Temperature: -25°C to +50°C
- Humidity: 20%–80%
- Abnormal Operation Conditions Alarms (Temperature etc.)
- RoHS, RoHS2, UL94-V0

Dimensions

- 280x45x180mm (W x H x D), 1U Height
- Prepared for 19" rack chassis installation
- Handles can be +90° rotated for direct wall mount
- Vertical, Horizontal or angled installation

Weight

- 3.1 Kg

Approvals

- IEC 60950-1:2005, IEC 60950-1:2005/AMD1:2009, IEC 60950-1:2005/AMD2:2013
- EN55032:2012, EN55024:2010, EN 61000-6-4:2007+A1:2011 & EN61000-6-2:2005

Capacity

- Max 31 CAMs per MoCA interface)
- 2.5 Gbit/s throughput per MoCA interface.

SPECIFICATIONS

Standards	<ul style="list-style-type: none">• IEEE 802.3u• IEEE 802.3ab• IEEE 802.3ac• IEEE 802.3z• IEEE 802.1p• IEEE 802.1q
VLAN	<ul style="list-style-type: none">• VLAN-ID range 1–4094• Max number of VLAN: 200
Multicast	<ul style="list-style-type: none">• IGMP snooping (IGMP V1, V2)• IGMP filtering per VLAN• MVR
QoS	<ul style="list-style-type: none">• Traffic classification• 802.1p• TOS• 802.1p remarking• Congestion management• Strict priority• Rate limitation• Configurable per Access Modem and Queue
Security	<ul style="list-style-type: none">• IP source guard• DHCP snooping• Option 82 rewrite support
Management	<ul style="list-style-type: none">• WEB GUI• SOAP/XML interface• Configuration• Statistics• Access through management VLAN or separate Management eth port.

About the Multimedia over Coax Alliance®

The Multimedia over Coax Alliance (MoCA®) is an industry standard alliance developing technology for the connected home. MoCA technology runs over the existing coaxial cabling, and is the in-home backbone for Wi-Fi®. Products integrating MoCA technology are found in the service provider, custom installer and consumer/retail channels.

The Alliance has more than 200 certified products and 50 members, including service providers, OEMs, CE manufacturers and IC vendors.

About MoCA Access™

MoCA Access is point-to-multipoint. It is designed to co-exist with legacy services such as TV, DOCSIS, and cellular (4G/5G) technologies. As a fiber extension technology, MoCA Access is well suited for operators and ISPs that are installing fiber-to-the-basement (FTTB) or fiber deep into the network, and want to use the existing coax for connection to each apartment or unit. MoCA Access also appeals to commercial integrators in market segments such as hospitality/hotels, restaurants, offices, and any other buildings wired with coax.



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