

MoCA Access™ modem

InCoax Access A251 is a series of reliable coax Network Termination Equipment modems.

InCoax Access A251 is capable of 2.5 Gbps symmetrical data rates.

InCoax Access A251 communicates with InCoax Control Units using the MoCA Access™ 2.5 standard.

KEY FEATURES

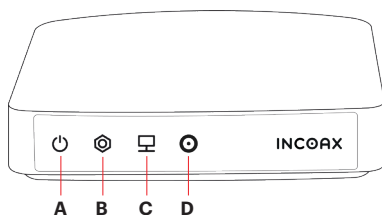
- Supports symmetrical MultiGigabit data rates
- Reverse Power Feed versions
- Extended Range versions with 10 dB increased link budget
- Can co-exists with TV or Satellite services
- Connects to antenna outlet
- Remotely configurable
- Easy self-installation by subscriber
- Bracket included for easy wall mount
- Approved for both Europe and North America



InCoax Access modem

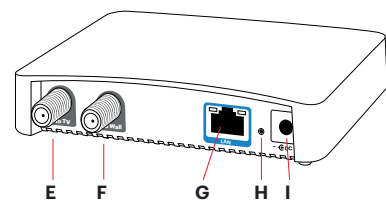
InCoax Access A251 is a series of reliable NTE modems capable of up to 2.5 Gbps symmetrical data rates. It connects to any antenna outlet in the subscriber's home for easy self-installation. The passive diplexer pass-through supports existing TV standards. Modem auto configuration functionality makes it easy, fast, and cost-effective to deploy new customer modem.

Digital devices such as computer, IP TV box, switch or router are connected to the LAN port.



Indicators & Connections

- A** Power status
- B** Coax link status
- C** LAN status
- D** RPF status (version dependent)
- E** TV output (connect to TV; version dependent)
- F** MoCA Access and TV-in port (connect to coax wall TV socket)
- G** LAN port
- H** Reset button
- I** Power port



TECHNICAL SPECIFICATIONS

Performance

- Based on MoCA Access 2.5
- Up to 2.5 Gbps throughput on LAN port
- MoCA bands: AA, AB, AC, AD, AE
- RF-channel bandwidth: 100 MHz
- Bonded operation with 3, 4 or 5 RF-channels
- MoCA RF frequency range: 400 – 1675 MHz
- PHY rate: Up to 780 Mbps per RF-channel
- MAC rate: Up to 500 Mbps per RF-channel
- MAC rate 1.5/2.0/2.5 Gbps (3/4/5 RF-channels)
- Normal range: 4 dBm max output power; automatically adjusted per modem
- Extended range: 17 dBm max output power; automatically adjusted per modem
- Modulation: QAM 1024/512/256/128/64/32/16/8, BPSK, QPSK
- Multiplexing methods: TDMA/TDD

Physical

- 1 x MoCA Access and TV-in port
 - F-female connector 3/8-UNEF32, 75 Ω
- 1 x TV-out (version dependent)
 - F-female connector 3/8-UNEF32, 75 Ω
- 1 x LAN port
 - RJ-45 connector; CAT5e, CAT6, CAT7 UTP
 - 10/100/1000/2500 Mbps, IEEE 802.3 compliant

Indicators

- Power on, coax link status, LAN status (red: 100 Mbps, orange: 1 Gbps, green: 2.5 Gbps), RPF status (version dependent)

Dimensions & weight

- 97 x 28 x 112 mm (W x H x D); 160 g

Environmental

- Operating temperature: 0 °C to +40 °C
- Humidity (RH): 20% – 80%
- Altitude: max 2000 m
- Storage (non-condensing): -20 °C to +50 °C and 5% to 90%
- RoHS, RoHS2, UL 94 V0

Power

- RPF modem with power adapter: 56 VDC nominal
- Power consumption, max: 5 W / 26 W (active SR3 RPF)
 - Voltage input: 100 - 240 VAC; -50/60 Hz; 0.8 A Max
- Non RPF modem with power adapter: 12 VDC nominal
 - Power consumption, typically: 4 W
 - Voltage input: 100 - 240 VAC; -50/60 Hz; 0.4 A Max
- Protection class II, Over voltage category II

Approvals

- Marking: CE, FCC, IC, ETL, UL, UKCA
- EMC: EN55032:2015 Class B, EN55035:2017, FCC Part 15 Class B, ICES-003(B)/NMB-3(B)
- Safety: EN IEC61000-3-2:2019, EN61000-3-3:2013, EN62368-1:2014, UL62368-1:2019, CAN/CSA-C22.2 NO.62368-1:2019
- ROHS: RoHS Directive 2011/65/EU and 2015/863/EU

Standards

- IEEE 802.3bz – 2500BASE-T Gbps Ethernet (10/100/1000/2500 Mbps)
- IEEE 802.3ac – Q-tag
- IEEE 802.1p – QoS
- IEEE 802.1q – with full VLAN-ID range
- ETSI TS 101 548-2 Reverse Power Feed

Management

- Through InCoax DPU: NETCONF/YANG
- Through in:xtnd Control: SOAP/XML
- Modem self-install
- Modem auto configuration

Product Configurator

A251X-RPF Y ER

A	Access
25	2.5 Gbps on LAN port
1	LAN port
X	X = 1 1 Coax IN X = 2 1 Coax IN + 1 TV out
RPF	RPF with 56VDC power adapter (w/o RPF (blank) 12VDC)
Y	Y = AA 400-900MHz / LP filter (X = 1) Y = AA 400-860MHz / Diplexer 950-2150 MHz (X = 2) Y = AB 800-1675Mhz / HP filter (X = 1) Y = AB 800-1675 MHz / Diplexer 5-694 MHz (X = 2) Y = AC 1025-1675 MHz / HP filter (X = 1) Y = AC 1025-1675 MHz / Diplexer 5-862 MHz (X = 2) Y = AD 1125-1675MHz / HP filter (X = 1) Y = AD 1125-1675MHz / Diplexer 5-1002 MHz (X = 2) Y = AE 1375-1675MHz / HP filter (X = 1) Y = AE 1375-1675MHz / Diplexer 5-1218 MHz (X = 2) Y = IP AA + AC / Diplexer for dual MoCA bands (X = 1)
ER	Extended Range (without RPF - blank)

About InCoax Networks

InCoax Networks AB re-purposes existing property coaxial networks in fiber and fixed wireless access (FWA) extension deployments for Communication Service Providers (CSP) globally.

The technology is a high performance, future proof, reliable and cost-effective complement, that reduces installation time and improves take-up rate, to boost digital inclusion and Internet access for all.

Contacts

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