



# NETWORK TERMINATION DEVICE WITH VOICE (NTD+V)

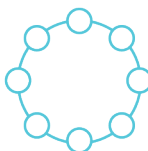
NDD-0315

The NetComm **FTTdp Network Termination Device with Voice (NTD+V) NDD-0315** is a unique all-in-one solution, designed to power a **Distribution Point Unit (DPU)** in FTTdp deployments and deliver an enhanced Internet experience thanks to an integrated Gfast modem supporting gigabit broadband services and voice port for connection of a telephone handset. Fault and performance monitoring ensure the quality of service, making it easier to identify and fix problems.



## REVERSE POWERING THE DPU

The **NDD-0315** provides power to the DPU directly from the customer premises over the copper lead-in cable, simplifying and reducing the cost of FTTdp deployments since the DPU does not require connection to a local power source.



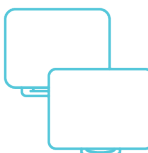
## ALL-IN-ONE SOLUTION FOR A BETTER EXPERIENCE

The **NDD-0315** features the latest technology to achieve Gigabit service speeds with the integrated **Gfast** modem. The device minimises interoperability challenges and ensures the best user experience without interruptions.



## SIMPLE INSTALLATION

Simply labeled ports and cables, together with an explanatory Quick Start Guide, make self-installation quick and easy for end users, eliminating the need for a technician to visit.



## COMPATIBLE WITH EXISTING GATEWAY DEVICES

The **NDD-0315** provides an Ethernet connection allowing a subscriber to continue using a pre-existing gateway device, if present. It also enables operators to use their existing Ethernet-enabled gateway devices as deployed for other access technologies.

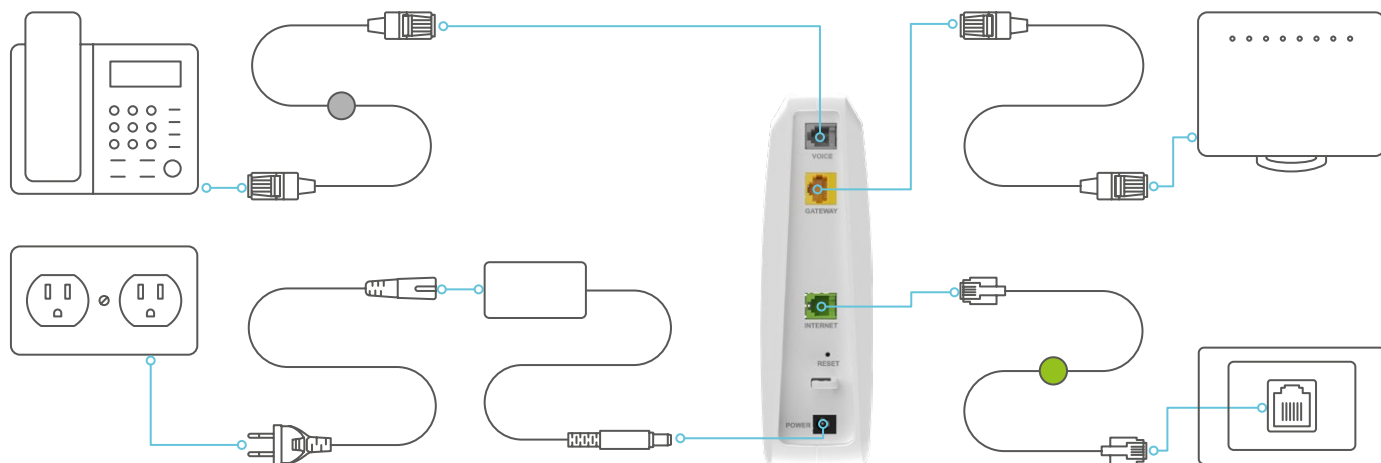


## PLUG AND PLAY

Once the **NDD-0315** is connected and turned on, the high-speed service is automatically activated, providing a quick and cost-efficient roll-out.



# CONNECTION DIAGRAM



## DEPLOYMENT SCENARIOS:

- › FTTH deployments requiring a fiber-extension solution free from the need to connect local AC power at the DPU.
- › FTTdp deployments with tight roll-out schedules and budgets, demanding an easy to install all-in-one solution that eliminates the need to visit customer premises and cuts installation costs.



# TECHNICAL SPECIFICATIONS

## DSL PROTOCOLS

- › ITU G.9700 and G.9701, including Amendments 1,2,3 - G.fast supporting profiles 106a/b and 212a

## INTERFACES

- › 1 x RJ45 Gigabit Ethernet port
- › 1 x RJ11 DSL port
- › 1 x RJ11 Telephone port
- › 1 x Power input port (DC Jack)
- › 1 x Recessed reset button
- › 1 x LED Indicator toggle button

## LED INDICATORS

- › Power
- › RPF link
- › DSL
- › LAN
- › Phone

## SECURITY

- › Meets general security requirements including:
  - › Isolation of management plane from user data plane
  - › Management traffic encryption
  - › Supports digitally signed and verified firmware downloads

## SUPPORTED CODECS

- › G.711, G.711  $\mu$ -law, G.711 A-law
- › G.722, G.722.2
- › G.729
- › G.168

## REMOTE MANAGEMENT

- › Automatically managed by the DPU
- › Optional BBF TR-069 CPE WAN Management Protocol – Issue 1, Amendment 5
- › BBF TR-181 Device Data Model for TR-069 - Issue 2, Amendment 11
- › Layer-2 fault and performance monitoring based on 802.1ag and Y.1731

## ETHERNET SUPPORT

- › QoS-aware queueing and scheduling

## SAFETY STANDARDS

- › IEC 62368-1
- › UL 62368-1
- › ITU-T.K21

## EMC STANDARDS

- › FCC EMC Part 15, Class B
- › ICES-003 Class B

## REGULATORY COMPLIANCE

- › FCC
- › CA Prop 65

## POWER SUPPLY

- › **Input:** AC 90 – 264V / 47–63Hz

## REVERSE POWERING

- › ETSI TS 101 548 v2.2.1, Class SR2
- › **Output:** DC 60V/250mA

## DIMENSIONS & WEIGHT

- › 182mm (L) x 157mm (W) x 59mm (H)
- › 0.4 kg

## ENVIRONMENTAL

- › **Operating temperature range:** 0°C to 45°C
- › **Storage temperature range:** -20°C to +70°C
- › **Relative humidity:** 5–95%, non-condensing

## KEY FEATURES

- › Installed in customer premises
- › Powers the FTTdp DPU avoiding power supply installation and connection at the distribution point
- › Gfast 212MHz support
- › High-speed Gigabit Ethernet port for connection to a computer, wireless router or gateway device

- › RJ11 Voice port for telephone connection
- › Provides super-fast speeds in a mixed access technology network
- › Labelled ports and cables, and a Quick Start Guide enabling easy installation by the end user
- › LED indicators provide Power,

- Reverse power feed, DSL link, LAN and Voice status information
- › Management traffic encryption
- › Supports digitally signed and verified firmware downloads

NetComm NDD-0315 Spec Sheet Rev 8

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**NETCOMM**  
HEAD OFFICE | SYDNEY  
18-20 Orion Road Lane Cove NSW 2066  
Sydney | Australia | +61 2 9424 2070  
[www.netcomm.com](http://www.netcomm.com)



**ZHONE**  
HEAD OFFICE | USA  
5700 Tennyson Pkwy  
Suite 400, Plano, TX 75024  
Texas | USA | +1 877-946-6320  
[www.zhone.com](http://www.zhone.com)



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