

PRODUCT DESCRIPTION

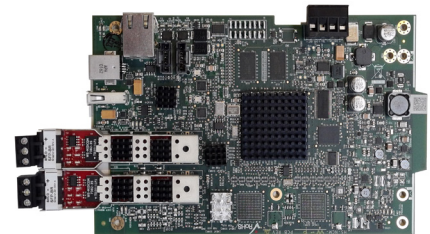
The High-Speed Network Communications Module (HS-NCM) provides AFP-2800*/AFP-3030 Fire Alarm Control panels, NCA and NCA-2 Network Control Annunciators, and DVC Digital Voice Command with a means to connect to High Speed NOTI • FIRE • NET™. Six types of HS-NCM are available:

- ✓ HS-NCM-W-2 for connecting nodes with twisted-pair wire
- ✓ HS-NCM-MF for connecting nodes with multi-mode fibre-optic cable
- ✓ HS-NCM-SF for connecting nodes with single-mode fibre-optic cable
- ✓ HS-NCM-WMF-2 for connecting wire and multimode fibre-optic medium on the same network
- ✓ HS-NCM-WSF-2 for connecting wire and single-mode fibre optic mediums on the same network
- ✓ HS-NCM-MFSF for connecting multi-mode and single-mode fibre optic mediums on the same network

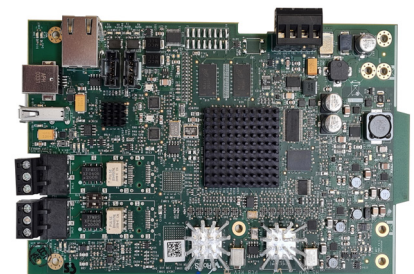
Each HS-NCM can accommodate up to two node addresses.

When not connected to a fire alarm panel, the HS-NCM defaults to repeater mode and can be used to boost signal distances or to pass data transmissions between two differently configured network segments when wire and fibre co-exist on a network.

**Not compatible with PCA network cards*



N-HS-NCM-W-2



Obsolete SP-HS-NCM-W card for reference

FEATURES

FIBRE MEDIUM FEATURES

- ✓ Data is immune to all environmental noise
- ✓ Optical isolation prevents ground loops
- ✓ NOTI • FIRE • NET fibre-optic medium
- ✓ Connectors: LC Duplex x 2
- ✓ 100 Mb baud transmission rate
- ✓ Data is regenerated at each node
- ✓ Two network ports to allow simultaneous connection to fire alarm control panel and to programming computer
- ✓ Enables software and database upload/download over the High-Speed NFN

| Fibre | Fibre Type | Fibre Diameter (µm) | Max Attenuation | Wavelength |
|------------|------------|---------------------|-----------------|-----------------|
| Multimode | OM1 | 62.5/125 µm | 10dB | 1310 nanometers |
| Multimode | OM3 | 50/125 µm | 6.5dB | 1310 nanometers |
| Singlemode | OS2 | 9/125 µm | 30dB | 1310 nanometers |

WIRE MEDIUM FEATURES

- ✓ Supports twisted pair-wire medium
- ✓ Transformer coupling provides electrical isolation between nodes
- ✓ Pluggable terminal wiring with strain relief
- ✓ Pluggable service connector (feeds signal directly through) in the event that power must be removed from a node
- ✓ 12 Mb transmission rate
- ✓ Data is regenerated each node
- ✓ Two network ports to allow simultaneous connection to fire alarm control panel and to programming computer
- ✓ Enables software and database upload/download over the High-Speed NFN
- ✓ Up to 3,000 feet (914.4m) between nodes in a point-to-point fashion (actual distance varies with wire quality)

HIGH-SPEED NOTI • FIRE • NET FEATURES

- ✓ Multi-mode fibre optic (MF), single-mode fibre optic (SF), wire (W), or a combination of W/MF/SF communications path
- ✓ True peer-to-peer communications. Each node stores its own program and communicates equally with all other nodes
- ✓ No “master” polling computer or other central weak link
- ✓ Inherently regenerative system - each node acts as a repeater to reshape and regenerate data signals
- ✓ Failure of any node does not affect any other node/communications among surviving nodes
- ✓ High-speed data communications (12 Mb wire, 100 Mb MF/SF fibre) operates several times as fast as competitive networks

TECHNICAL SPECIFICATIONS

| | |
|------------------------------------|--|
| Temperature/Humidity range | 0°C to 49°C (can be affected by extreme temperature ranges & humidity. Recommended to be installed in a room temperature of 15-27°C) |
| Relative Humidity (non-condensing) | 93% ± 2% at 32°C ± 2°C |

COMPATIBILITY

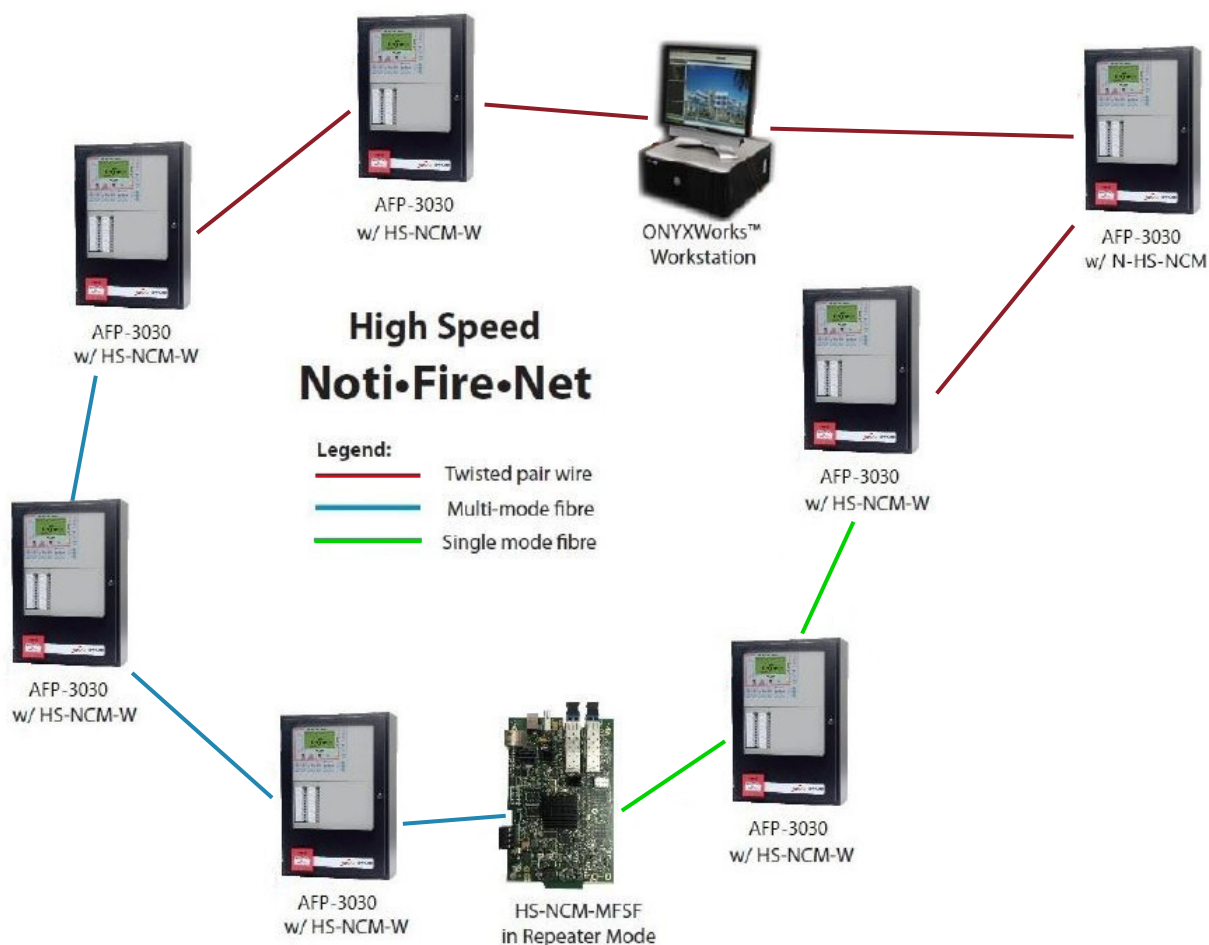
The HS-NCM-W-2, HS-NCM-WMF-2, and HS-NCM-WSF-2 are compatible with the following which are obsolete and no longer sold:

- ✓ HS-NCM-W
- ✓ HS-NCM-WMF
- ✓ HS-NCM-WSF

ORDERING INFORMATION

| | |
|----------------|--|
| N-HS-NCM-W-2 | High Speed Network Communications Module, twisted-pair wire interface |
| N-HS-NCM-MF | High Speed Network Communications Module, fibre-optic cable interface (Multi-mode) |
| N-HS-NCM-SF | High Speed Network Communications Module, fibre-optic cable interface (Single-mode) |
| N-HS-NCM-WMF-2 | High Speed Network Communications Module, wire and fibre-optic cable interface (Multi-mode) |
| N-HS-NCM-WSF-2 | High Speed Network Communications Module, wire and fibre-optic cable interface (Single-mode) |
| N-HS-NCM-MFSF | High Speed Network Communications Module, fibre-optic cable interface (Multi-mode/Single-mode) |

* All models of the N-HS-NCM can be installed in any standard chassis such as the CHS-3L and CHS-4L



EXPANDING AN EXISTING N-HS-NCM-W NETWORK WITH THE N-HS-NCM-W-2

