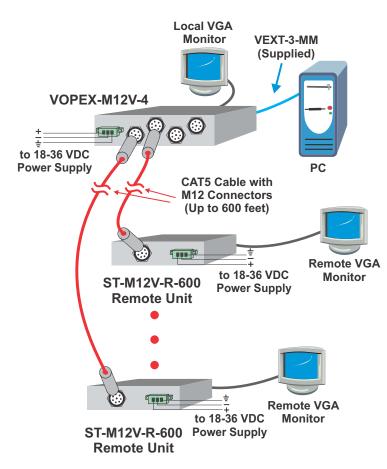
Industrial VGA Splitter/Extender via CAT5 with M12 Connectors VOPEX®

Drive up to 16 displays 600 feet (183 meters) away from one computer in rail transportation and industrial environments

- Supports resolutions up to 1920x1440.
- Easily expandable. Add remote units as you add monitors.
- Optional audio can be broadcast to self-powered stereo speakers at the local unit and each remote location.
- Meets the electrostatic discharge (ESD) immunity requirements of IEC/ EN 61000-4-2.
- High quality rugged steel construction with durable powder coat finish.
- M12 connectors resist vibration and provide reliable connectivity in harsh environmental conditions.
- Integrated mounting brackets for easy surface/wall mounting.
- Ideal for digital signage, passenger information systems on mass transit, train stations, industrial environments, airports, and other applications that require multiple displays with reliable robust connections.





VOPEX-M12V-4 Local Unit (Front & Back) and ST-M12V-R-600 Remote Unit

- Vibration resistant
- Robust Screw Terminal Power Connection
- High quality rugged steel construction
- Meets EN 50155 Standards

The VOPEX® Industrial VGA Video Splitter/Extender simultaneously broadcasts high-resolution video from one computer to 4, 8, or 16 remote monitors located up to 600 feet (183 meters) away using CAT5/5e/6 cable with M12 connectors. The robust M12 connector system is ideal for rail transportation and harsh industrial environments where reliable connections are required.

VGA video splitter/extender system has two components: the VOPEX-M12V-x VGA broadcast unit, which connects to the host computer and also supplies video to a local monitor, and an XTENDEX® ST-M12V-R-600 remote unit for each remote monitor. The units are interconnected by CAT5/5e/6 cable terminated with M12 connectors.



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Specifications

Remote Unit

Local Unit

Video Input

- Supports a computer with VGA video.
- Male 15-pin HD connector.
- Input frequency ranges:
 - Horizontal: 15 to 130 kHz.
 - Vertical: 30 to 150 Hz
 - Supports Separate and Composite TTL level sync and Sync on Green.
- Input impedance: 75 Ohms.
- Maximum input levels: 1.45 p-p.
- Video is DC coupled.

Video Output

- Female 8-pin A-Coded M12 connectors for CAT5/5e/6 cable to remote units.
- Female 15-pin HD connector for local monitor.
- Crisp and clear 1920x1440 video resolution.
- Output impedance: 75 Ohms.
- Maximum output level: 1.45Vp-p

Optional Audio

- Terminal block for stereo audio connections.
- Frequency response: 20 Hz to 20 kHz, ±1dB.
- Signal-to-Noise Ratio (SNR): 76 dBA.
- Total Harmonic Distortion and Noise (THD+N): 0.017%
- Stereo Crosstalk: -70 dB.
- Input impedance: 10k Ohms.
- Line level output; supports multimedia speakers.
- CD quality audio output.
- Maximum I/O levels for audio: 3.1 Vp-p (line level).

Cables

- 3-foot (0.91-meter) VGA cable included.
- Use CAT5, CAT5e or CAT6 UTP straight through cable for TIA/EIA-568B wiring terminated with 8-pin male M12 connectors (not included).
 Use M12-8PWTP-M-FA to terminate both ends of CAT5/5e/6 cable.

Power

- 18~36 VDC via 3-pole detachable screw terminal.
- Power consumption: <5W

Environmental

- Operating temperature: -4 to 158°F (-20 to 70°C)
- Storage temperature: -40 to 185°F (-40 to 85°C)
- Operating and Storage Relative Humidity: 17 to 90%

Regulatory Approvals

- CE, RoHS
- EN51055, EN50121-3-2

Video Output

- Female 15-pin HD connector.
- Supports resolutions up to 1920x1440.
 - When using CAT6 cable, some degradation may be experienced, depending on the construction of the cable.
- Output impedance: 75 Ohms.
- Maximum output level for video: 1.45Vp-p.
- Video quality adjustment for different lengths of CAT5/5e/6 cable done manually.

Optional Audio

- Terminal block for stereo audio connections.
- Frequency response: 20 Hz to 20 kHz, ±1dB.
- Signal-to-Noise Ratio (SNR): 76 dBA.
- Total Harmonic Distortion and Noise (THD+N): 0.017%.
- Stereo crosstalk: -70 dB.
- Line level output; supports multimedia speakers.CD quality audio output.
 - Maximum output levels: 3.1Vp-p (line level).

Power

- 18~36 VDC via 3-pole detachable screw terminal.
- Power consumption: <5 W

Environmental

- Operating temperature: -4 to 158°F (-20 to 70°C)
- Storage temperature: -40 to 185°F (-40 to 85°C)
- Operating and Storage Relative Humidity: 17 to 90% non-condensing RH.

Regulatory Approvals

- CE, RoHS
- EN51055, EN50121-3-2

Warranty

Two years



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Drive up to 16 displays 600 feet (183 meters) away from one computer in rail transportation and industrial environments

| Distances and Resolutions for CAT5/CAT5e and CAT6 Cables | | | | |
|---|--------------------|-----------------------|--|--|
| Cable | Distance (feet) | Maximum Resolution | | |
| | 600 | 1024x768 at 60Hz | | |
| CAT5/CAT5e(UTP) | 400 | 1280x1024 at 60Hz | | |
| | 300 | 1600x1200 at 60Hz | | |
| | 100 | 1920x1440 at 60Hz | | |
| CAT5/CAT5e (STP) | 300 | 1024x768 at 60Hz | | |
| | 200 | 1280x1024 at 60Hz | | |
| CAT6 (UTP) | 100 | 1920x1440 at 60Hz | | |

| Distances and Resolutions for CAT5 EXANE cable | | | | |
|---|--------------------|--|--|--|
| Distance (feet) | Maximum Resolution | | | |
| 200 | 1280x1024 at 60Hz | | | |
| 100 | 1920x1440 at 60Hz | | | |
| 50 | 1920x1440 at 60Hz | | | |

| Industrial VGA Splitter/Extender via CAT5 with M12 Connectors | | | | | |
|---|--------------------|----------------------|------------|-----------------|--|
| NTI Part # | Supported Features | Desktop or Rackmount | # of Ports | Size WxDxH (In) | |
| VOPEX-M12V-4 | VGA Video | Desktop | 4 | 5.63x3.46x1.71 | |
| VOPEX-M12V-8 | VGA Video | Desktop | 8 | 5.63x3.46x3.00 | |
| VOPEX-M12V-16 | VGA Video | Desktop | 16 | 11x3.46x3.00 | |

| Industrial VGA Splitter/Extender with Stereo Audio via CAT5 with M12 Connectors | | | | | |
|---|-------------------------|----------------------|------------|-----------------|--|
| NTI Part # | Supported Features | Desktop or Rackmount | # of Ports | Size WxDxH (In) | |
| VOPEX-M12VA-4 | VGA Video, Stereo Audio | Desktop | 4 | 5.63x3.46x1.71 | |
| VOPEX-M12VA-8 | VGA Video, Stereo Audio | Desktop | 8 | 5.63x3.46x3.00 | |
| VOPEX-M12VA-16 | VGA Video, Stereo Audio | Desktop | 16 | 11x3.46x3.00 | |

| Industrial CAT5 VGA Video Extenders, Remote Units | | | | | |
|---|-------------------------|----------------------|------------|-----------------|--|
| NTI Part # | Supported Features | Desktop or Rackmount | # of Ports | Size WxDxH (In) | |
| ST-M12V-R-600 | VGA Video | Desktop | NA | 3.48x3.08x1.45 | |
| ST-M12VA-R-600 | VGA Video, Stereo Audio | Desktop | NA | 3.48x3.08x1.45 | |

