# GBX Module for 10 Gigabit Ethernet
## For Robotic Tool Changers

**ATI INDUSTRIAL AUTOMATION**
A Novanta Company


*GBX Module*

## Product Features & Benefits

**GBX 10 Gigabit Ethernet Modules** provide safe and reliable **transmission of high-speed data, signals, and fieldbus communication for advanced automation, AI, and Industry 4.0.**

**Plug-and-play M12 8-pin X-code connectors for safe and reliable pass-through of Cat6/Cat6a** industrial Ethernet cables **saves time during integration** – no stripping, crimping, or soldering.

**Configurable cable exit** between -90°, 0°, and +90° radial positions allows users to **optimize cable dress and routing** to reduce cable strain and maximize system uptime.

Up to **One Million mating cycles to excel in advanced industries** such as automotive, aerospace, testing, and more.

**Broad compatibility** with ATI Standard Tool Changers, Heavy Duty Tool Changers, and Utility Couplers **for module standardization**.

For more information, visit www.ati-ia.com/GBX.

## Product Description

Smart manufacturing processes thrive with flexibility and timely, accurate communication. ATI's GBX 10 Gigabit Ethernet Modules excel in high-speed data and signal communication with vision, inspection, metrology, motion control, and fieldbus systems utilized in a variety of industries and applications:

### Manufacturing
Automotive > Paint Inspection, Gap Meas.
Test Systems > Automatic & Manual Docking



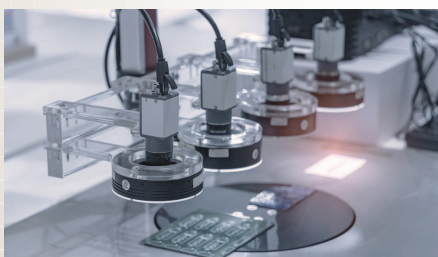### Warehouse & Logistics
Logistics > Barcode Scanning
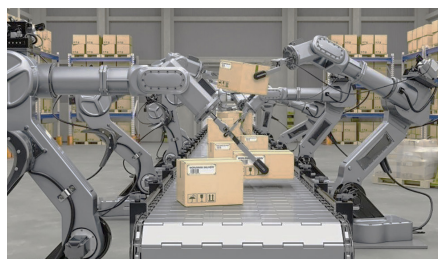


### Metrology
Laser Scanner > Scan to CAD
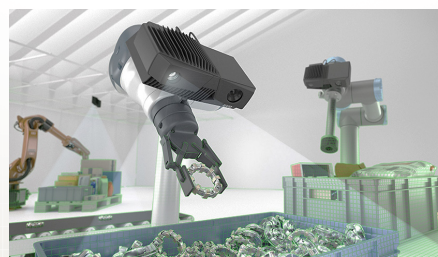Robotic Material Removal > Scan to Path



### Digital Image Processing
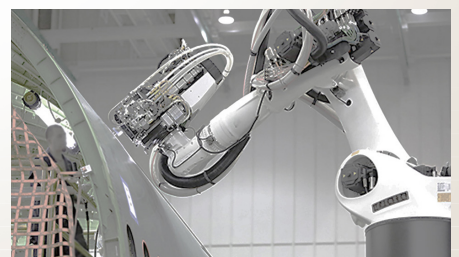GigE Vision for Machine Vision



### Material Handling, Pick-and-Place
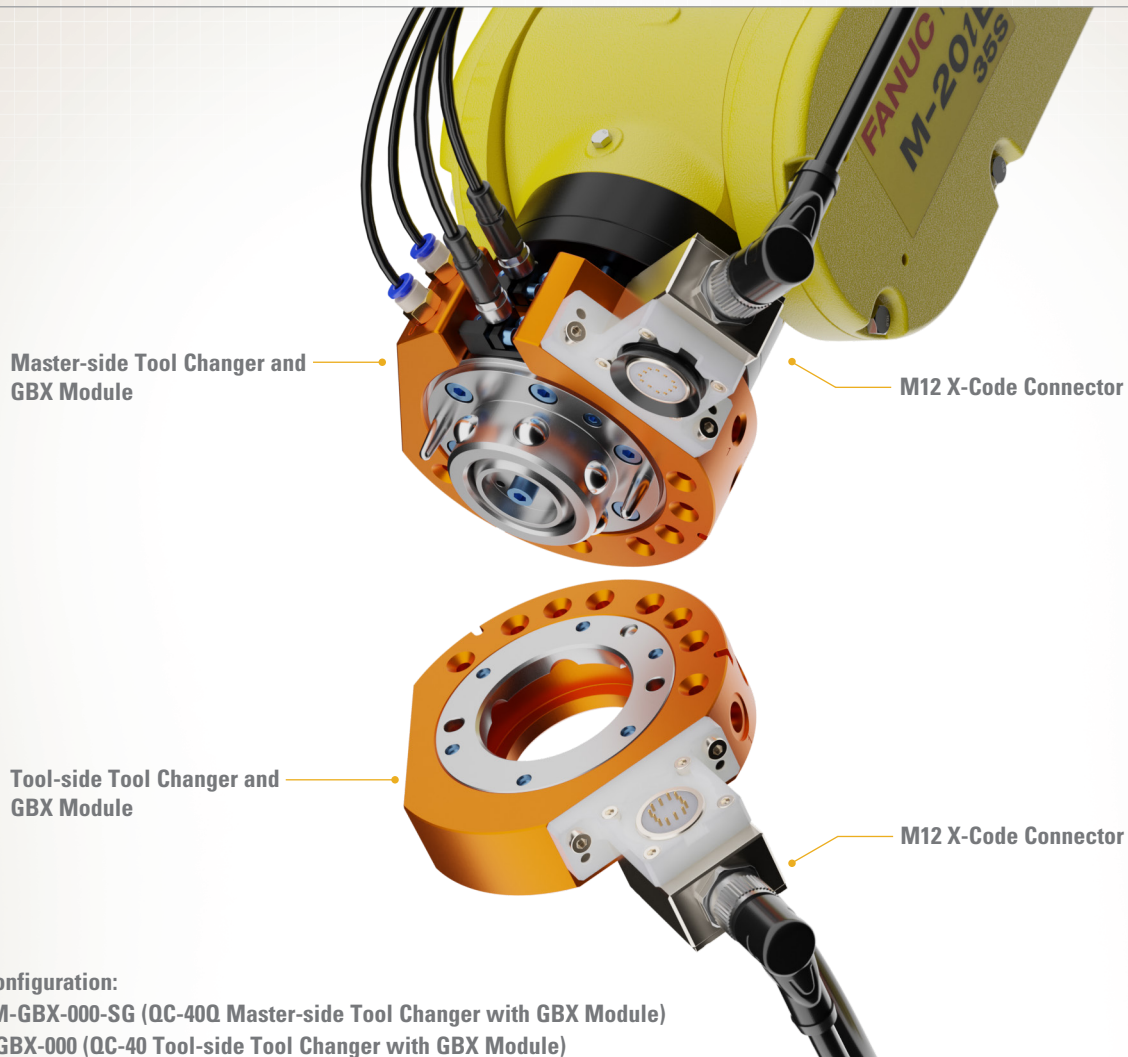Bin Picking > Part Position Scanning



### Aerospace
Maintenance > Rivet Inspection
Quality Control > Surface Scanning

Master-side Tool Changer and
GBX Module

M12 X-Code Connector

Tool-side Tool Changer and
GBX Module

M12 X-Code Connector

**Example configuration:**
9120-040QM-GBX-000-SG (QC-40Q Master-side Tool Changer with GBX Module)
9120-040T-GBX-000 (QC-40 Tool-side Tool Changer with GBX Module)

| Specifications | Values |
|---|---|
| Signal | Up to 10 Gbps / CAT6A Ethernet |
| Connectors | M12 X-Code 8-pin, per IEC61076-2-109:2014 |
| Cable Exit Orientation | Center (0°), configure optionally to Left (90°), or Right (-90°) in the field |
| # Pins | 8 |
| Electrical Rating | 60V / 0.6A, supports Power Over Ethernet (PoE) Class III |
| Weight | Master-side 0.113 kg (0.25 lbs), Tool-side 0.109 kg (0.24 lbs) |
| Protection Rating | IP65 when coupled |
| Ordering Part Numbers | 9120-GBX-M (Master-side), 9120-GBX-T (Tool-side) |

ATI reserves the right to change these specifications.