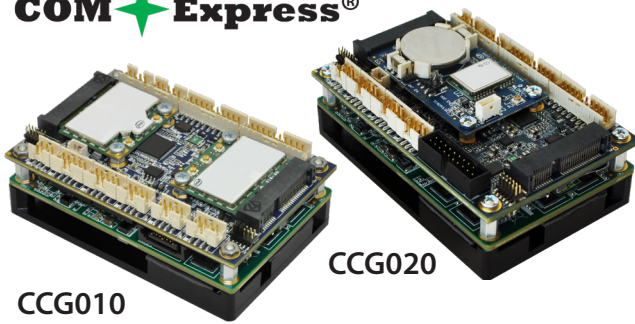




Connect Tech's COM Express® Type 10 Mini Carrier Board is an extremely small carrier board.

The carrier board is ideal for space constrained applications, harsh environments, demanding conditions and supports extended temperature ranges of -40°C to +85°C.

COM  Express®



CCG010

CCG020

This mini carrier board features rugged, locking connectors and offers the ultimate in durability.

FEATURES

- ✓ Extremely small size 84mm x 55mm
- ✓ All ruggedized latching connectors
- ✓ Support for the latest generation of low-powered CPUs
- ✓ Extended Temperature Range: -40°C to +85°C (-40°F to +185°F)

SPECIFICATIONS

Compatibility	COM Express® Type 10 Modules PICMG COM Express® COM.0 R2.1	Mini-PCIe Expansion	2x half-size cards OR 1x full length card Both sockets have PCIe and USB signaling, one socket can be configured as mSATA
Storage	<ul style="list-style-type: none"> • CCG010: 1x mSATA, 1x External SATA • CCG020: 1x mSATA 	USB	<ul style="list-style-type: none"> • CCG010: 8x USB 2.0 Ports (6 to connectors, 2 to miniPCIe) • CCG020: 2x USB 3.0 Ports (Only if supported by COM Express Module) • 6x USB 2.0 Ports (2 to USB 3.0 connector, 2 to USB 2.0 connector, 2 to miniPCIe)
Network	2x Gigabit (10/100/1000) Ports <ul style="list-style-type: none"> • 1 from COM Express® • 1 from on-board Intel 82574 PHY/Controller 	GPIO	8-bit GPIO
Display	<ul style="list-style-type: none"> • 1x DisplayPort++ (DDI) interface • Can be used for DisplayPort, HDMI, DVI or VGA • 1x LVDS interface (18-bit, 3 data pairs) 	Audio	<ul style="list-style-type: none"> • HD Audio (Cirrus Logic CS4207 codec) • 1x stereo input • 1x stereo output
Serial	2x RS-232/422/485 hardware selectable ports	Misc. External Interfaces	<ul style="list-style-type: none"> • SMBus • I2C • Battery Low Indication • System Status (S3 and Reset Outputs)
Power	Single wide input range +6V to +14V (may be module dependent)	Connectors	All shrouded locking ruggedized 2mm pitch headers Can be mated to CTI custom cable set to panel mount or PC MIL type connectors
Temperature	-40°C to +85°C (-40°F to +185°F)	Dimensions	84mm x 55mm (3.307" x 2.165")
Weight	49g (1.73oz)	Support	2 Year Warranty and Free Technical Support



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COM Express® Type 10 Mini Carrier Board Comparison		
Specifications	CCG010	CCG020
Mini PCI Express	2 slots	2 slots
PMC/XMC	-	-
HDMI	✓	✓
DisplayPort	✓	✓
DVI	✓	✓
LVDS	✓	✓
VGA	-	-
Gigabit Ethernet	2	2
USB 2.0/3.0	6/0	4/2
USB Client Port	1	1
Serial RS-232 / RS-485	2/2	2/2
HD Audio	✓	✓
GPIO	8 bits	8 bits
SATA	1	-
mSATA	1	1
Compact Flash	-	-
SD Card	✓	✓
Input Power Options	+6V to +14V	+6V to +14V
PCI-104 / PCIe/104	-	-
Dimensions	84mm x 55mm (3.307" x 2.165")	84mm x 55mm (3.307" x 2.165")
Temperature	40°C to 85°C (-40°F to 185°F)	40°C to 85°C (-40°F to 185°F)

RoHS

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