# Supports Cartification

# The Excellerant UMI

# The Universal Machine Interface (UMI)



# DNC LOAD CHOICE

**NETWORK INDEPENDANT** 

With Gigabytes of local file

UMI ensures your files are

storage, the Excellerant

always available to your

CNCs.

The UMI comes with DNC built-in - just upload via serial port, mapped drive (SMB), FTP, USB stick, or push the file you need on our UMI web screen...

### TECHNICAL SUPPORT

Excellerant is here to help. We also offer direct online collaborative installation and training!



## **SECURE DNC & DATA COLLECTION**

The Excellerant UMI is a smart IIoT Edge Device designed to deal with CNC machine tool connectivity—handling DNC and MDC. It is a CNC co-processor running Linux & thus can upgrades the machine's functionality.

The UMI provides a local file store and TCP/IP connectivity (via Wifi, LAN for DNC, machine monitoring, and MTConnect capabilities) — all with Gigabytes of local FLASH memory & USB support.

# **OTHER UMI FEATURES:**

- 802.11N (AC optional) WiFi that can use any standard Access Point no long serial cables means it is easier to install, & maximizes CNC serial upload speeds.
- Gigabit Ethernet enables Wireless to LAN drive mapping & we enable FTP.
- The UMI get its power from the machine it can take 7-30VDC 500mA (max)-plug & play for Fanuc Controls—the unit can now be USB powered too.
- Magnetic mounting for easy installation.

- Adds wireless DNC & USB to any CNC.
- Embedded DNC with Fanuc M198
  Remote Subprogram Call Support—
  great for pallet systems.
- Direct DNC connection maximizes serial transfer speeds with no data loss.
- An ORiON can operate standalone, so a network issue doesn 't stop work.
- Linux-based hardened Quad Core 32 bit Processor box with no moving parts that connects to any network—solid state.
- Allows for Fanuc FOCAS to flowthrough—DPRNT & MTConnect as well.
- The UMI 's 2nd serial can be used for handheld terminals.
- ★ It can use standard USB devices—like
  USB bar code readers, 1D/2D & QR
  Bluetooth Readers + RFID readers.
- ★ SAMBA Server enables mapped drives to a CNC (Ethernet) & to a Network Server (Wifi) for flexibility.
- Remote "DIR" command makes getting long file named parts easy.



The UMI Version with Quad Core 32 bit ARM H3 Processor, USB (x2), & Dual Serial Ports—software from Nexas Networks Inc.











# **UMI Wireless DNC**

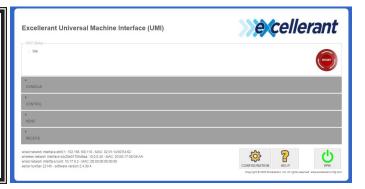
The new Excellerant Universal Machine Interface (UMI) is a next generation wireless DNC smart edge device, that enables any CNC to be part of an Industry 4.0 solution.

The powerful and open UMI gives you more choices on how to deploy and manage your NC program files with wireless DNC data routing built-in. The UMI also has an internal expansion slot for more exciting future options.

Operators can easily pull needed files from a central server, or from the UMI locally, to get up and running fast...

# SERVICES AVAILABLE

MDC & DNC Software
Hardware Adapter Support
Technical Support
Installation & Setup
Application Support



# Universal Smart IIoT CNC Adapter

- Files stored in the internal memory or the UMI can be called from the CNC control by remote commands, and loaded to memory in the CNC or drip fed.
- Files can be called from the Network server, where they are stored by the CNC control and loaded into the Internal memory on the UMI using standard SMB Ver 2 mapped drive protocols.
- Files stored on a server can be called from the CNC control to be directly loaded into the CNC memory or run in drip mode.
- Files can be loaded into internal memory of the UMI with a USB stick. Using the USB "PUSH" feature. These files are then pushed serially from the UMI when the USB stick is inserted.
- Files can also be transferred into a "PGMPUSH" folder in the UMI to be sent to the machine immediately. Just hit READ or CYCLE START and the file in the "PGMPUSH" folder is read into the CNC or transferred into a "PGMPUSH" folder in the UMI to be sent to the machine immediately. Just hit READ or CYCLE START and the file in the "PGMPUSH" folder is read into the CNC.
- ★ Simple remote call and save procedures—with bar code support.
- Adds Mapped Drive file transfer to any CNC, or use FTP.
- Adds bi-directional USB backup support, and inbound only for files for ITAR (CMMS) applications.

### COMMUNICATION

- ♦ Gigabit Ethernet port
- ♦ 802.11 N or AC WiFi connection (external magnetic mounted antenna supplied)
- ♦ 2 x RS-232 DB9 Serial Port for DNC (to 115k BAUD)
- ♦ 2 x USB 2.0 ports

### **FILE STORAGE**

- ◆ 16 Gigabyte Internal SD
   Flash Drive—with minimum 6
   Gigabytes for Part Programs
- ♦ FTP & Mapped Drive Support
- ♦ USB Data Stick Compatible

### INTERFACE OPTIONS

- ◆ Any browser can talk to the UMI — PC, MAC, laptop, tablet, smart phone, IOS device...
- ♦ USB supports Bar Code Readers, Cameras, Data Sticks, etc...
- ♦ Works with Excellerant DNC
   & MDC software

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