

Human Machine Interface (HMI) Overview

December 3, 2008

Magelis XBT HMI Panels

HMI hardware ranges overview

Small Panels



Magelis
XBT N, R, RT

Alphanumeric &
semi-graphical

Advanced Panels



Magelis
XBT GT, GK

Graphical touch
screen &
keypad



Magelis
XBT GTW

Graphical touch
screen open to
the Web



PC BOX & PC Panels



Magelis iPC
MPC

Industrial PC
running Microsoft
Windows



Magelis XBT Small Panels

Alphanumeric & semi-graphical



XBT N

XBT R



XBT R T

ALARM !

- Simple, Compact & Economical

- Open to international applications

- Offer 13 languages: i.e. Greek, Japanese, Chinese, and Spanish fonts

- Easy to integrate

- Spring clips, powered by Schneider PLCs communication cable, Schneider multi-points & third parties protocols, printers connection...

- XBT N, R alphanumeric panels

- Scalable keyboard interface
- New front face design
- New ultra-bright backlight

- XBT RT semi-graphical panels

- Flexible with both touch screen and keyboard
- Configurable user-interface

- 3 colors extra-bright back-light, buzzer, disabling touch screen, function keys...

Text & Semi-graphical HMI

Main features of Vijeo Designer Lite V1.2



Configuration

Optimized for text & semi-graphical terminals
(XBTLN/R/RT)

Graphics mngt. (bitmap, preconfigured buttons & lamps, bar graphs, simple trends, pictograms library)

Multi-language (6 Build Time, unlimited Run Time, several fonts incl. ASCII, Chinese, Cyrillic, Greek, Japanese Katakana...)

Simulator (off-line)

Static PLC variable links
(Unity, Twido, PL7, Concept)

Advanced HMI

Import of XBTL1000 text & semi-graphical applications

Communication

Serial lines connection

Drivers supported:

- Schneider & Siemens (on all terminals)
- Rockwell, Mitsubishi, etc Omron

Magelis XBT Advanced Panels

Graphical touch screen & keypad



XBT GT



XBT GK



• Flexible & powerful, supporting Web and Multimedia

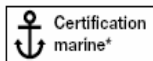
- Sensitive analog touch screen. External keyboard & mouse
- Multiple connections (2 serial lines, built in Ethernet, USB for download & connectivity, Field bus)
- Simultaneous comms & extended third parties protocols
- Powerful CPU & fast response time
- Data sharing between panels over Ethernet (select models)
- Download & data logging with CF and USB stick
- Web gate: web server pages and PC remote monitoring.
- Operating temps 32-122 degF and up to 65K colors.

XBT GT graphical touch screen

- Screens from 3.8“(monochrome) to 15”(color).
- Video camera (RCA) & MPEG Video files (select models)

• XBT GK Keypad & Graphical touch screen

- For sever environments, 5”7 & 10”4 touch screens
- Configurable HMI (function keys, disabled keypad / touch screen, touch 2 keys simultaneously...)
- Industrial pointer, alpha-numeric keypad & 3 colors LEDs



Class 1 Div 2



Catégorie 3



Magelis XBT Advanced Panels

Graphical touch screen open to the Web



XBT GTW



• XBT GTW Open to windows

- Windows XP embedded with applications pre-installed:
 - Vijeo Designer run time
 - Media player
 - Office & Acrobat readers
 - Full Internet Explorer
- Web cam & video IP streaming
- Built in dual Ethernet with gigabit support
- 2 CF slots, 4 USB + one front panel USB (15" screen)
- 8.4" & 15" touch screens, 262K colors, viewing angle up to 160°
- Connectivity to PC peripherals (memory stick, external hard disc, DVD player/burner, keyboard, mouse, wireless, extended printers & bar code readers...).

Magelis Industrial PCs – “All-in-one” Offer



- “All-in-one” or “BOX” industrial PCs for independent or distributed applications
 - MS Windows OS
 - With or without display
 - Touch or touch & keyboard combinations: 8.4" to 19" screens (model dependent)
 - Processor options: Celeron M @ 600 MHz processor up to Core Duo™ @ 2 GHz (model dependent)
 - Dual-Ethernet ports, with gigabit support on one port



● Smart

- Windows HMI for harsh / limited space environments
- **Fanless/Diskless drive with CF card for data storage**
- Windows XPe OS
- **To run Windows Client applications for general users**
 - Optional HMI Edition with Vijeo Designer RunTime (RT)
- Available in 8.4, 12 & 15 inch sizes
- AC (15”) and DC power supplies



● Compact iPC

- General purpose iPC for machine builders
 - Vijeo Designer RunTime (RT) or third party software
- Available in 8.4, 12 & 15 inch sizes
- 8 or 16 GB flash disk (model dependent)
- 4 or 5 USB ports, 2 serial ports, PCMCIA slot, PCI slot (model dependent)
- AC and DC (15”) power supplies

Magelis Industrial PCs – “Box” Offer



● Magelis iDisplay

- To be connected on Magelis Box offer
- Or to any 3rd party PC including office PC
- Front USB port
- With and without keyboard and 15” and 19” touch screens

● "Smart Box

- Similar to the Magelis Smart minus front panel
- AC and DC power supplies
- Video port supports up to UXGA (1600 x 1200)



● Compact PC Box

- Similar to the Magelis Smart minus front panel
- AC power supply
- Video port supports up to UXGA (1600 x 1200)
- 8 or 16 GB flash disk (model dependent)



● Flex PC Box

- 2 or 4 PCI slots
- Industrial 80 GB HDD or 8 or 16 GB flash disk
- AC and DC power supplies
- RAID option
- Battery back-up option
- DVD burner option
- Video supports up to 2048 x 1536 (DVI-D with RGB support)
- 12 & 15” (touch screen + keyboard) or 15” & 19” (touch screen) front panel choices
- Vijeo Designer run time option



FACTORYCAST HMI



- Feature available in Quantum, Premium, and standalone E-switches.
- Web-serving capabilities beyond the Network Over Ethernet (NOE) PLC cards.
- Automatically records data & feeds into remote relational database (i.e. Sequel, Oracle, etc) or SCADA.
- Manages alarms generated by PLC.
- Acts like co-processor in PLC rack to provide data independently of CPU.
- Manages information via email.

2008 HMI Overview

A consistent software offer : Vijeo



Vijeo Designer/ Vijeo Designer Lite

Configuration Software for Magelis XBT N/ R/ RT (Lite), GT, GK, GTW, Smart, Compact IPC



Vijeo Citect

Supervisory Software for distributed and high availability applications
Web Gate , OFS, UAG
Unity single data entry...

Magelis Industrial PCs: A complete range of PC products bundled with Vijeo Designer / Vijeo Citect



Magelis Smart

The ideal Web client for Transparent Ready 2 Ethernet ports, 8, 12 & 15", XPe, Diskless, Fanless

Ethernet TCP/IP



Magelis Compact iPC

12 and 15" Optimized for Machine Builders, 2 Ethernet ports, Windows XP, Celeron M, Pentium M



Magelis PC BOX

A made to order IPC. Available in Smart BOX, Compact PC BOX, Flex PC BOX. Works stand alone or associated with iDisplay



Magelis iDisplay

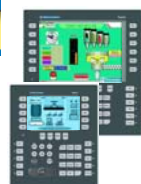
12, 15, 19" ^{new} touchscreen displays w/ (15") or w/o Keypad

Magelis Advanced Panels: A wide range of Graphic terminals all configured by Vijeo Designer



Magelis XBTGK

Keypad graphic terminals available in 5.7 & 10.4"



Magelis XBTGT

Touch screen graphic terminals. Available in 3.8 w/ or w/o color, 5.7, 7.4, 10.4, 12, & 15"



Magelis XBTGTW

Touch screen graphic terminals under Windows XPe Available in 8.4 & 15"



Ethernet TCP/IP

Magelis Small Panels: Compact, Semi-graphic displays all configured by Vijeo Designer Lite



Magelis XBT N

A large range of text displays with 3rd party drivers



Magelis XBT R

Compact and matrix terminals
- 4 lines of 5 to 20 characters
- International fonts and 3rd party drivers



Magelis XBTRT

Compact and matrix terminals
- 4 and 8 lines of 5 to 20 characters
- International fonts and 3rd party drivers
- Semi graphic symbols
- Touch and Keypad

