NTX Embedded

RZ Ecosystem Partner Solution
NTX Embedded SPADA SERIES

RENESAS
RZ
READY

Solution Summary

Spada is a versatile HMI platform featuring pre-developed building blocks, customizable to meet application needs, optimize performance, and match the client's cost requirements.

NTX offers end-to-end design services to manufacturing expertise for rapid product launch - UI/UX, touch screen solutions, application software, middleware, controls firmware, mechanical, and system board level design.

Features/Benefits

- Renesas RZ/G MPU powered HMI platform
- High Quality TFT display
  - 50,000 hours
  - 1,000 cd/m^2 available
  - Various display sizes
- Multi-touch, high durability touch screens
- Extensive set of peripherals and I/Os
- Designed to meet various UL and IEC standards
- Fit-Form-Function customizable for OEM designs

Diagrams/Graphics

Integrated Display		Advanced Features		Core & Memory
4.3", 5", 7", 10.1", 15", & more display sizes		AI for Edge Data Processing	Low Power Standby Mode	Single/Dual Core 64bit A53 1.2 GHz/A55 1GHz
Supports up to 1080p resolution		Co-Processor Cortex-M33	12 bit A/D	Up to 8GB EMMC
Projected Capacitive Multi-Touch Screen		Dual Independent Displays	Dual Ethernet	Up to 2GB DDR
Power VR GE8300 / Mali-G31 GPU		Cryptographic HW	H.264 Video Playback	Micro SD

Peripherals		I/O			
Mono or Stereo Speakers	Microphone In	SPI	i2C	UART	CAN
Wi-Fi, Cellular, & BLE	External Camera & Monitor	RS485	HDMI	USB	100/1000 Ethernet
Analog Sensors	Industrial Controllers / PLC	RS232	PCIE	JTAG / Console	GPIO

Operating System, Middleware, & Drivers				
QT Graphics Library	Security & Crypto Software	CIP Linux	Custom Drivers	Yocto Distribution	Weston Desktop

Target Markets and Applications

- Food Service Equipment
- Industrial Automation
- Kiosks/Signage
- Security & Access Control
- Energy Service Equipment
- Medical

https://ntxembedded.com/

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HMI and Industrial Controls Experts

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HMI Total Solution Provider

NTX is a leading U.S. based HMI and industrial controls supplier. NTX offers end to end services from design to manufacturing to accelerate time-to-market with proven solutions. Our products are deployed in a variety of applications from commercial cooking equipment to security and access control devices.

Our extensive design experience, coupled with an integrated supply chain and state-of-the-art manufacturing facilities, evolves your ideas to market-ready product with best-in-class elegance, performance, quality and cost.

Engineering & Design

Our experts deeply immerse themselves in your product for full comprehension of its human-machine interaction needs, developing and keeping your product running the way it should.

Scalable Performance Options

Quick to Market Development Process

Thorough Qualifications & Validation Process

Sustained Engineering & Product Optimization

Manufacturing & Support

We've matured a supply chain infrastructure with numerous long-term, upstream critical component partners.

ISO: 9001 Certified Facilities

In-house PCBA & Box-built Assemblies (2 plants)

PFMEA & DFM For Product Quality Robustness

Software/Hardware Updates & Enhancement

Continuous Reliability Testing

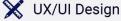**Full Product Testing & Burn-in**

Product Life-cycle Management

Highly Responsive Customer Service Team

Design Services

Our team can provide clean sheet embedded design as well system re-engineer.

- ✕ UX/UI Design
- 🖥 Display & Touch Screen
- </> Software Design
- ⚙ Mechanical Design
- Hardware Design
- ↻ Quick Turnaround Prototypes
- 📶 IoT Gateway
- 🏭 Production Test Bed
- Controls Algorithm
- ↻ Product Lifecycle Support