

UWMC- YO4
DATA SHEET



Key Features

Display & Interface

- 4" IPS LCD Touchscreen
- 480 x 480 resolution
- Capacitive multi-touch
- Auto brightness adjustment
- Scratch-resistant glass
- 16.7M colors
- 300 nits brightness

System Architecture

Processor: PX30 Quad-core Cortex-A35 @1.3GHz

Memory: 1GB DDR3 RAMStorage: 8GB eMMC FlashOperating system: Android

Connectivity

Wi-Fi: IEEE 802.11 b/g/nFrequency: 2.4GHz

Security: WPA2-PSK/WPA3

Range: Up to 50m





- Ethernet:
 - 10/100 Mbps RJ45
 - Optional PoE (802.3af)
 - Auto MDI/MDIX
- RS485:
 - Half-duplex communication
 - 3.81mm terminal blocks
 - Up to 1200m range

Power Specifications

Operating Voltage: 100-240VAC

Frequency: 50/60HzPower Consumption:

Active: < 3WStandby: < 0.5W

• PoE Class 2 (optional)

Physical Properties

• Dimensions:

Panel: 86 x 86 x 10mm

With base: 86 x 86 x 36.6mm

Installation depth: > 50mm

Weight: 210g

Housing: ABS plastic

Environmental

Operating Temperature: 0°C to 40°C
Storage Temperature: -20°C to 60°C
Humidity: 5-90% RH (non-condensing)

Protection Rating: IP20MTBF: >50,000 hours



Applications

1. Smart Lighting Control

- Smart Home Systems
- Commercial Buildings
 - Offices
 - Meeting rooms
 - Common areas
 - Reception zones
 - Corridors
- Hospitality
 - Hotel rooms
 - Restaurants
 - Conference facilities
 - Spa/wellness areas
- Healthcare
 - Patient rooms
 - Nursing stations
 - Treatment rooms
 - Administrative areas

2. Building Integration

- HVAC Control
- Scene Management
- Occupancy-based Control
- Energy Monitoring
- Schedule Management





3. Residential Applications

- Smart Homes
- Apartments
- Private Residences
- Multi-dwelling Units

4. Special Applications

- Retail Spaces
 - Showrooms
 - Display lighting
 - Ambient control
- Educational Facilities
 - Classrooms
 - Lecture halls
 - Libraries

Interface Capabilities

Touch Interface

Technology: Projected Capacitive

• Points: 5-point multi-touch

Response time: < 50ms

Glass thickness: 2mm

Viewing angle: 178° (H/V)





Display Performance

Brightness: 300 cd/m²
Contrast ratio: 1000:1
Color depth: 24-bit
Refresh rate: 60Hz

Backlight: LED

• Backlight life: 30,000 hours

Communication Protocols

Network Features

- TCP/IP Stack
- MQTT Protocol Support
 - QoS levels: 0, 1
 - SSL/TLS encryption
 - Last Will Testament
 - Keep-alive monitoring
 - Auto-reconnect
- HTTP/HTTPS
 - RESTful API support
 - Secure firmware updates
 - Web configuration interface

RS485 Specifications

Baud rate: up to 115200bps

Data bits: 8Stop bits: 1/2

Parity: None/Even/OddFlow control: None

Isolation: 2.5kV



Software Features

System Software

- Auto-recovery system
- Watchdog timer
- Local data caching
- Configuration backup

Security Features

- Secure boot
- Encrypted storage
- Access control
- Password protection
- Session management
- Update authentication

Integration Capabilities

ULDC Integration

- Direct device control
- Status monitoring
- Scene management
- Schedule coordination
- Firmware update
- Device discovery





Building Management

- Modbus TCP/IP
- MQTT integration
- HTTP API access
- Energy monitoring
- Occupancy tracking

Performance Specifications

Response Times

Boot time: < 30 secondsScreen wake: < 1 secondTouch response: < 50ms

Command execution: < 100ms
Scene activation: < 200ms
Status update: Real-time

Reliability Metrics

MTBF: > 50,000 hours

Service life: > 5 years

Error recovery: Automatic

Watchdog timeout: 60 seconds