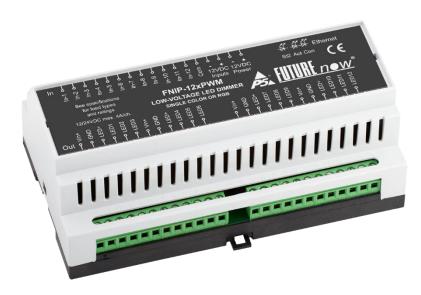# FutureNow
12-Channel Low Voltage Dimmer

FutureNow 12-channel Low Voltage Dimmer FNIP-12xPWM

The FNIP-12xPWM is a 12 channel low voltage dimmer module used for switching and dimming up to 12 low voltage LED lighting loads either via local inputs, custom TCP protocol or its built-in web server.

- 12 x 4A low-voltage PWM outputs
- 12 optically isolated multi-purpose digital inputs for contact sensors and manual operation
- Single colour, RGB and RGBW LED strip support
- Colour picker feature
- Built-in web server for configuration, control and monitoring
- TCP communication protocol (API) with simple ASCII commands
- Free mobile apps
- Multiple users with different user rights
- Automatic event reporting of input and output status changes
- Firmware upgrade via LAN
- Scenes stored in the modules can be activated from any input on any module on the network.

Specification

Power Requirements	
Main Circuitry	9 – 36 VDC max. 100mA @ 12V max. 50mA @ 24V
Inputs	9 – 36 VDC max. 25mA @ 12V max. 55mA @ 24V

Outputs	
Load	Max. 4A/Channel, 3-30 VDC

Inputs	
Type	12 x optically isolated, noise protected, common GND digital inputs

Communication	
Control	TCP (simple ASCII TCP commands) Build-in web server Local inputs (dry contacts, momentary switches)
Input modes	Toggle, monostable, input follow, RGB, independent
iOS/Android app	P5 iOS/Android apps
Interoperability	Drivers available for most systems

Connectors	
Terminals	2.5mm² screw terminals for both inputs and outputs
Ethernet	RJ45 Ethernet Connector

Environmental	
Operating Temperature	0 ^{0}C – 40 ^{0}C (32 ^{0}F – 104 ^{0}F)
Storage Temperature	-20 ^{0}C – 60 ^{0}C (-4 ^{0}F – 140 ^{0}F)
Humidity	Up to 93%

Physical	
Dimensions (H x W x D)	157 mm x 86 mm x 57 mm (9 DIN unit width)
Weight	0.28Kg
Installation	Standard DIN Rail Mount

Approvals	Package Content	Warranty
CE	FNIP-12xPWM Quick Installation Guide	2 years