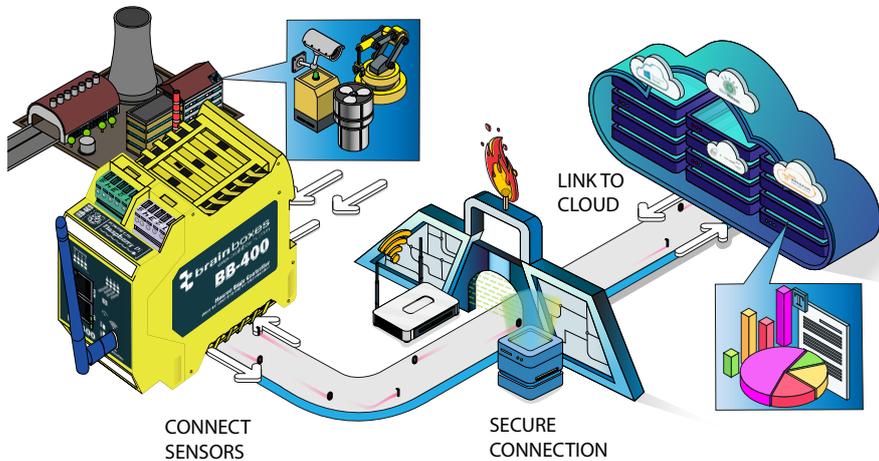


## Industrial Data & Connectivity Solutions

The robust hardware of industry with the possibilities of modern software



### BB-400

#### Industrial Edge Controller



- Industrialised Raspberry Pi & Arduino
- Works with common 0-30V sensors
  - 8 digital IO lines
  - Extendable Wi-Fi antenna
  - Bluetooth - for wireless sensors
- UPS power management - prevents corruption
- Dual redundant 5-30 VDC power supply
- Highly compatible open source software

### Our devices have helped to:

Detect black holes    Control telescopes in the Atacama Desert    Fertilise crops  
 Weave material    Count tyres    Process food    Control 2 BBC Studios (Elstree & London)  
 Operate driverless forklift trucks    Print lottery tickets  
 Manage automatic security barriers    Monitor CERN's Large Hadron Collider  
 Monitor & control production lines around the globe



#### Remote IO

Ethernet I/O modules for monitoring, control & automation



#### Ethernet Switches

Light industrial & rugged forms 10/100 & Gigabit



#### Ethernet to Serial

Send RS232 or RS422/485 serial data over the network



#### USB to Serial

1, 2, 4 & 8 ports RS232 & RS422/485 converter adapters

### Easy to use. Highly configurable. Reliable

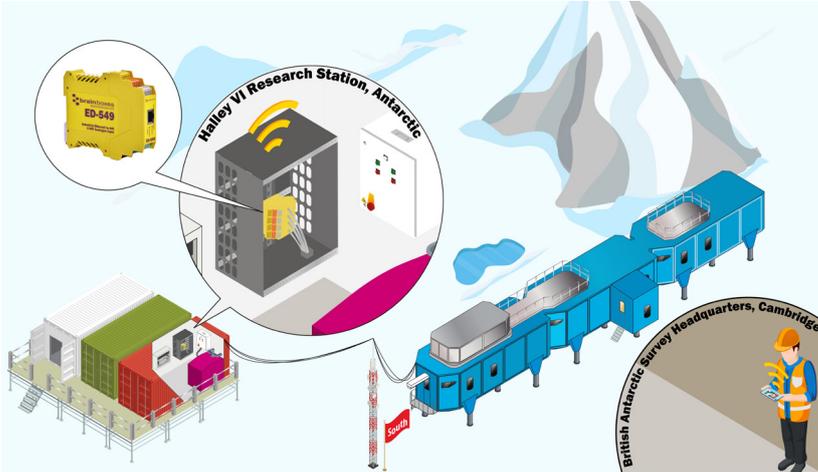
Our range of industrial controllers, converters, Ethernet switches and I/O modules allow you to retrofit for efficiency and productivity, connect machines with different ports and protocols, send real-time 'big data' to IT networks and the Cloud, and manage assets through predictive maintenance



**BEST CUSTOMER SERVICE 2020**  
**EXCELLENCE IN INNOVATION 2020**

## Making remote feel next-door...

### Access to Extreme Environments – Clean Communication Across the Globe



Built on a floating ice shelf in the Antarctic, the British Antarctic Survey's Halley VI Research Station collects important data on climate change and rising sea-levels, space weather and the ozone layer

With typical winter temperatures falling below -20°C, extreme lows of -55°C, and 105 days of 24-hour darkness, Halley's location is rugged as well as remote

Thanks to Brainboxes Remote I/O modules, the station is now able to remotely collect measurements all year-round

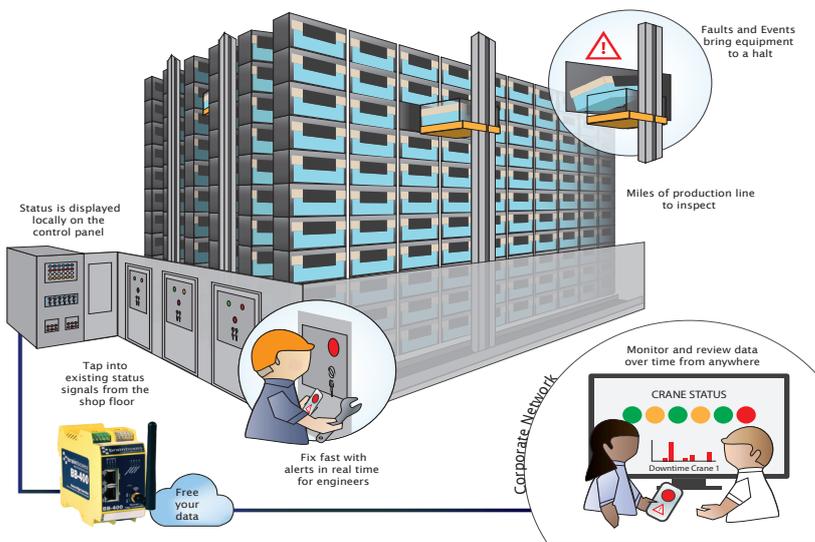
At +12° above the equator, Oxford University's Global Jet Watch observatory in Southern India battles debilitating humidity and temperatures reaching above 40°C

Brainboxes Ethernet to Serial adapters send important astrophysics data across the globe to the University's headquarters in the UK, whilst an Ethernet connection secured by Brainboxes Industrial Ethernet Switches remotely monitors system health

"What massively helps our digital signal infrastructure is the products made by Brainboxes...Utterly rugged, they survive extremely high temperatures such as we have in Southern Rural India" - Katherine Blundell, OBE, Global Jet Watch



## ...and the future of industry accessible now



The Next Day Delivery Guarantee of a major Logistics Warehouse relies on shipping an order every second, so it's vital that any downtime-causing faults are reported in real-time

Brainboxes industrial edge controller sends the right data on processes, productivity, and faults to screens across the vast warehouse and onto a mobile app; making crucial information from 5 miles of production line accessible to the supervisor and every team member from anywhere

Data analysis makes it easier to identify trends in productivity and adjust processes for the most efficient output

