

MAINFRAME COMMUNICATIONS OVERVIEW

Contact Mark Jannece – Sales Director on 07765 036373 should you need any help

Founded: in 1988







INTEGRATION SERVICES

We offer all levels of integration according to your requirements:

- Supply Only We'll help you select the right cabinet and ship it to you
- Configure We install your selected options; PDU, fans etc
- Custom Build We'll fully build and populate using factored or free-issued parts
- Integration As above, but wired/cabled, labelled, tested and ready to go
- Assisted Design We'll design the internals and create wiring lists, layouts, management etc
- Custom We'll develop a solution from scratch to exactly align with your requirements
- Staging Facilities to enable equipment testing and configuration prior to delivery to site.

-Wayford-

INTEGRATION & CUSTOMISATION

Add off-the-shelf components, or custom-designed product:

- Environmental:
 - Cooling fans & filters
 - Air Conditioning
 - Thermostatic or hydrostatic controlled heaters
- Power
 - Isolators
 - Distribution
 - Power supplies & UPS
- Fibre-optic splice, patch and management
- Passive & active network components
- PLC
- Free-issued equipment



SPECIALIST PRODUCTS

Bespoke Design and Build

- Roadside & Trackside Cabinets for Mixed Fibre / Copper
- Specialist Optical Splicing / Termination Enclosures
- Trackside Splice Joints and Demountable Cables
- UPS Uninterruptible Power Supplies











ENCLOSURE TYPES

Range of standard types with custom options, or custom-designed

- Protection:
 - From: IP54 Sheltered outdoor locations
 - To: IP68 Fully Immersible
- Data racks & Cabinets
- Rail location cabinets
- Street Cabinets
- Harsh Environment
- Custom-designed



BUILD FACILITY WITH 18,000 SQUARE FEET OF SPACE FOR ANY SIZE BUILD

- 1. Relay Racks
- 2. Communications Racks
- 3. Data Racks
- 4. External cabinets
- 5. PLC Racks
- 6. Server Racks
- 7. CTF Racks, etc





Istanbul Metro Relay Rack



LUL PLC Rack



BUILD FACILITY (Cont)

Server racks built to Customer requirement fully cabled and factory tested

ITP – Inspection Test Plans agreed

QCP – Quality Control Plans in place





SOLIDWORKS DESIGN FACILITY WITH 3D PRINTING FOR PROTOTYPES



Professional design team



3D printed part and finished item in stainless steel



Optical Distribution / Active Equipment Cabinet

Designed to basic functional description and environmental specification given by customer.

- Develop 3D model of initial concept
- Collaborative development of each design iteration
- Create fully detailed 3D model of agreed design
- 3D-printing in-house for evaluation of special parts





Railway System Relay Racks

Solution based on a standard Schroff cabinet Approximately 90 site-specific designs Safety-Critical

Integration:

- Verification of customer book wiring diagrams
- Creation of wiring lists from book wiring diagrams
- Design of internal cabling and management
- All internal cabling and labelling
- Custom designed and built mounting plates
- Terminal numbering and in house marker printing
- Transportation encasement





Railway System Relay Racks Double and single units

- Comprehensive Factory Acceptance Tests
 - Point-to-Point testing
 - Wire Count check
 - Formal QA procedure
 - Insulation Resistance
 - Hi-Pot testing
 - Relay Strap Tests
 - Powered Function Tests
 - Full Test records and documentation
 - Configuration documentation





Server Cabinet

Solution based on a standard 600 x 1000mm data cabinet Suite of 16 specific designs

Integration:

- Power cabling ready-to-install solution
- Built to drawing
- All internal power and network cabling
- 100% Factory Acceptance tested
 - Server Configuration and operation
 - Point-to-Point



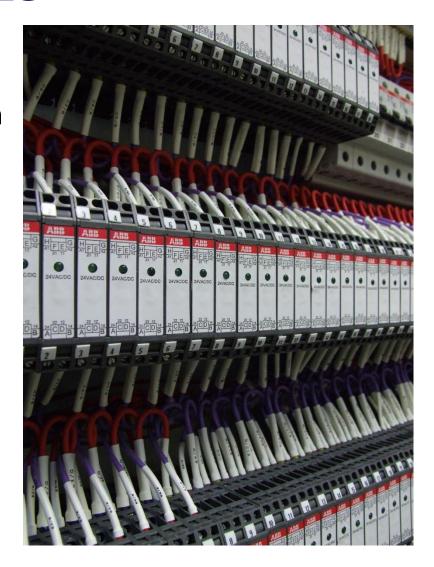


PLC Cabinet

Solution based on a bespoke customer EMC cabinet design Large order of multiple site-specific designs

Integration:

- Design of cabling and containment
- Power cabling ready-to-install solution
- Internal wiring PLC controller, AC and DC I/O
- Mainframe fibre containment and presentation
- 100% Factory Acceptance tested
 - Insulation Resistance
 - Point-to-Point
 - Ground Bond Test
 - Withstanding Voltage





Power Distribution Cabinet

Off-the-shelf ABB Distribution Board specified by the customer

Simple Integration:

- Populated and fully wired to customer drawings
- Comprehensively tested





Rail Location Cabinet

Solution based on an off-the-shelf Rittal IP65 Cabinet specified by the customer

Customisation & Integration:

- Piercings to accommodate the customer's fibre interfaces
- Design of backplane-mounted shelf to maximise use of the fibre management area
- Design of optical fibre splicing and management solution
- Installation of all internals
- Comprehensive testing





PRODUCT SUPPLY

- Customised Solutions for specialist uses, including cabinet and enclosure design, Specialist Power, fibre and copper cable assemblies.
- Optical Fibre Including Fibre patch leads, Assemblies, Fibre Optic Cables, Management, Connectors and Adaptors, Splicers, Tools and Cleaning Equipment
- Copper Networking, Brand rex, Pre-terms, Management etc
- Cabinets Racks and Frames, Data Cabinets and Servers racks, Open Frames, Outdoor cabinets,
 IP 65 Outdoor Cabinets, FTTX Outdoor Fibre Cabinets, Underground Dome Closures
- Cabinet Accessories PDU's, IPDU's, Door Access control, Contact sensors, Fuse Panels, DCIM software with remote monitoring capability.
- UPS / Power J Schneider, Riello, MCL designed UPS's, Merawex UPS's
- Railway / LUL Specialist Cable, and enclosures for railway working

Integration Capabilities

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Supported by flexible assembly lines, professional design and engineering teams and over 30 years of inhouse expertise.

Some of our integration capabilities includes:-

Functional testing

Full factory acceptance testing

Mechanical build and electrical assembly lines

Power management solutions

AC/DC PDU's, IPDU's and AC Boxes

Thermal power management

Installation of battery packs and power shelves including rectifiers

Heat exchanger

Lighting units

Specialised electrical component integration

AC / DC distribution

Wiring looms

Air-conditioning units

Fans, filters and thermostats

Subrack assembly

UPS's