



8<sup>th</sup> November 2002

# Buying CERN-Standard Crates



For details, see information on the web:

<http://atlas.web.cern.ch/Atlas/GROUPS/FRONTEND/rackscrates.html>

(for part of this you will need a password).

C .N .P .Gee  
Rutherford Appleton Laboratory



# Miscellaneous Information



- **Heat Deflectors (which define crate positions) will be Riveted into racks ( C Parkman).**
  - It will be hard to change rack layout once this is done.
- **At CERN, 18 of 160 running Fastbus crates failed. So plan for 5-10% spares of VME crates (which we have done)**
- **There will be no common pool of spares (P Farthouat):**
  - Buyers will be “Encouraged” to use a common standard power supply so that spares can be exchanged.
  - Repairs will be handled through CERN electronics pool.

# Rack Database

ATLAS Electronics Meeting Oct 9, 2002

**ATLAS ELECTRONICS CO-ORDINATION DATABASES**

**RACK LISTS & PLANS**

FileCal

**Important note**  
Following the Rack Allocation & Services Meeting of 21 Feb., the Rack database is being revised and the contents will be unreliable and subject to change without notice.  
Chris Parkman,  
1 March 2002

Site prepared by [Chris Parkman](#)  
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**RACKS**

- For the DETAILS of the RACK and its LAYOUT, click on TYPE
- For the RACK NUMBERING SCHEME, click on RACK No.
- For the RACK TYPES, click on TYPE

<a href="#">Sort (Location, y, x)</a>	<a href="#">Sort (Location, x, y)</a>									
RACK No. (id)	LOCATION	SUBDETECTOR	SUBSYSTEM	TYPE	I/P (kW)	UPS (kW)	D/P (kW)	CABLES	CONTACT	
<a href="#">3-19</a> (235)	USA15 Level 1	TileCal	High Voltage Source	<a href="#">52Ua</a>	3.9		1.26	No Cables	François VAZEILLE	
<a href="#">4-19</a> (236)	USA15 Level 1	TileCal	High Voltage Source	<a href="#">52Ua</a>	3.9		1.26	No Cables	François VAZEILLE	
<a href="#">5-19</a> (239)	USA15 Level 1	TileCal	HV Control & Cooling Control	<a href="#">52Ua</a>	3.1		.62	No Cables	François VAZEILLE	
<a href="#">6-19</a> (240)	USA15 Level 1	TileCal	300V Power Supplies	<a href="#">52Ua</a>	46.06		9.2	No Cables	François VAZEILLE	
<a href="#">7-19</a> (241)	USA15 Level 1	TileCal	Read Out Control & Low Voltage Power Supply Control	<a href="#">52Ua</a>	3.1		.62	No Cables	François VAZEILLE	
<a href="#">8-19</a> (242)	USA15 Level 1	TileCal	Cesium Calibration System	<a href="#">52Ua</a>	3.26		.65	No Cables	François VAZEILLE	
<a href="#">9-19</a> (238)	USA15 Level 1	TileCal	Cesium Calibration System	<a href="#">52Ua</a>	2.895		.58	No Cables	François VAZEILLE	
<a href="#">3-16</a> (237)	USA15 Level 1	TileCal	Laser Optical Patch Panel	<a href="#">52Ua</a>	.3		.06	No Cables	François VAZEILLE	
<a href="#">4-16</a> (243)	USA15 Level 1	TileCal	Laser Box	<a href="#">52Ua</a>	1.35		.27	No Cables	François VAZEILLE	
<a href="#">5-16</a> (244)	USA15 Level 1	TileCal	Laser Control & Safety Control	<a href="#">52Ua</a>	3.1		.62	No Cables	François VAZEILLE	
<a href="#">6-16</a> (245)	USA15 Level 1	TileCal	Tilecal Logic & Calibration DAQ	<a href="#">52Ua</a>	3.1		.62	No Cables	François VAZEILLE	
<a href="#">7-16</a> (246)	USA15 Level 1	TileCal	Electronics associated with RODs	<a href="#">52Ua</a>	3.5		.7	No Cables	François VAZEILLE	
<a href="#">8-16</a> (247)	USA15 Level 1	TileCal	Tilecal RODs	<a href="#">52Ua</a>	5.4		1.08	No Cables	François VAZEILLE	
<a href="#">9-16</a> (248)	USA15 Level 1	TileCal	Tilecal RODs	<a href="#">52Ua</a>	5.4		1.08	No Cables	François VAZEILLE	
<a href="#">Not allocated (1644)</a>	UX15 Level x	TileCal	Cesium System					No Cables	François VAZEILLE	

Textual display

# LHC Crates - 9U

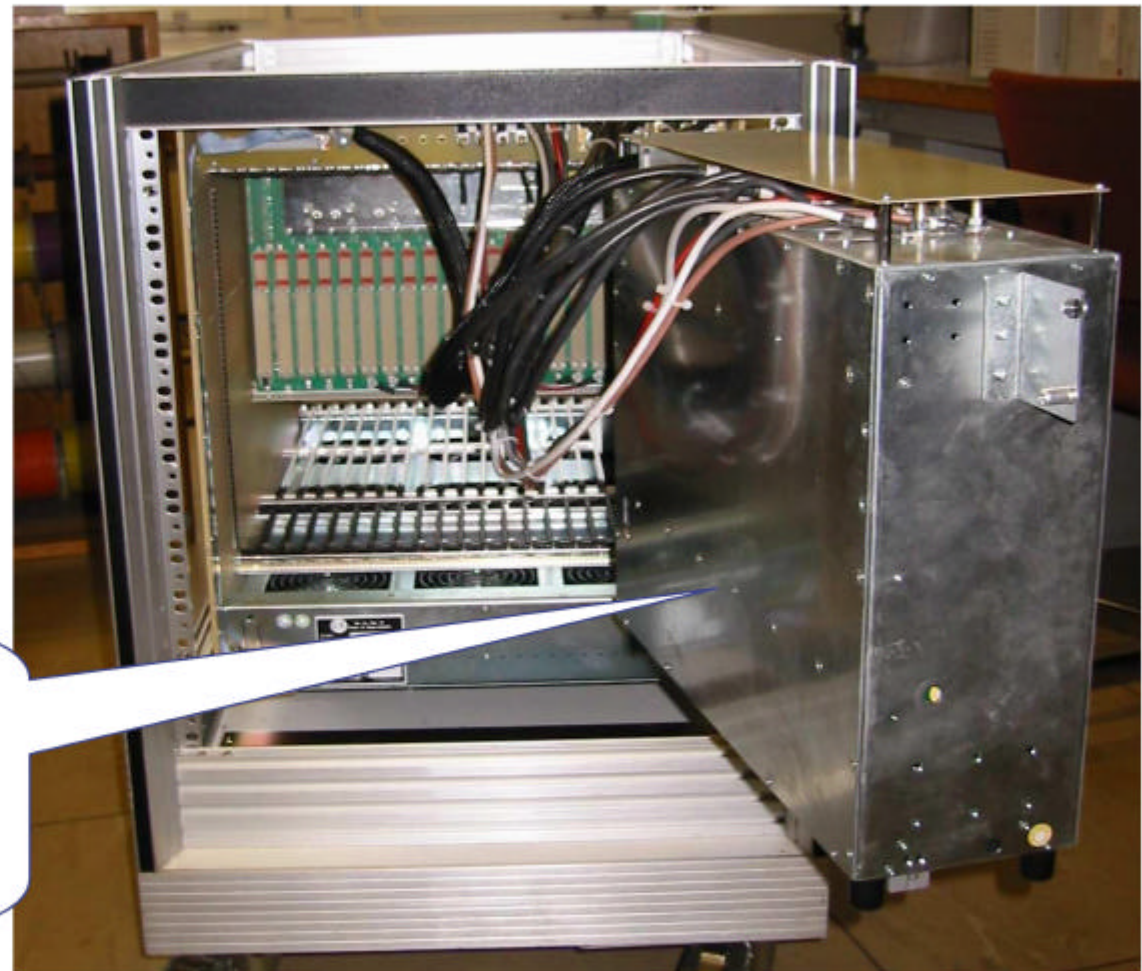
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9U x 400mm with  
Local Power Supply

# LHC Crates - 9U

9U x 400mm with  
Remote Power  
Supply



Power Supply  
hinged out to allow  
access to rear  
transition modules

# Sample Prices

VME64x backplane  
≈ 1,500CHF

- ◆ 6U VME64x complete
  - With local air-cooled PS (1.65kW)
  - *6,541CHF*
  - With remote water-cooled PS (1.65kW)
  - *8,267CHF*
- ◆ 9U VME64x complete
  - With local air-cooled PS (3kW)
  - *8,935CHF*
  - With remote water-cooled PS (3kW)
  - *10,750CHF*

# Ordering Procedure

- ◆ Grouped annual release orders - starting end-2002
- ◆ Time line
  - End September 2002
    - ◆ Technical details available (dimensions for custom backplanes, etc.)
    - ◆ Price lists available
  - Early November 2002
    - ◆ Experiments notify EP-ESS of their 2003 subrack requirements
  - End 2002
    - ◆ Financial commitments made
    - ◆ Release order made
  - Delivery in three batches
    - ◆ 12 / 24 / 36 weeks after receipt of first release order
    - ◆ (≈March 2003, June 2003, September 2003)
  - September 2003
    - ◆ Preparation for next annual release order



# When to Buy?



- There will be **ONE BULK ORDER PER YEAR**
  - for delivery in three batches at 12 week intervals during the following year.
- Requests are being collected **NOW** for all deliveries up to end 2003.
- The next order will be in December 2003 for delivery in 2004.
  - This is **TOO LATE** for most final subsystem tests.
- Therefore we need to order at least some PPr, JEP, CP and ROD crates and power supplies **IMMEDIATELY**





**End**



**The End**